

6001

Asp Phe Gly Ser Ser Pro Ile Val Ile Met Ala Thr Arg Glu Ser Phe
 35 40 45
 Pro Cys Ala Ala Ile Val Trp Phe Thr Arg Leu Met Ala Ser Ser Leu
 50 55 60
 Arg Ser Val Leu Thr His Gln Thr Pro Pro Thr Gly Met Trp Arg Asn
 65 70 75 80
 Ser Ser His Asn Asp Trp Met Pro Ile Glu Asn Met Glu Ser Thr Val
 85 90 95
 Ser Leu Phe Ser Ser Asn Phe Tyr Val Ser Gln Phe Thr Ser Glu Ser
 100 105 110
 Val Glu Ile Asn Leu Thr Leu Lys Leu Lys Asn Ile Arg Phe Ser Met
 115 120 125

<210> 10890

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 10890

Ala Val Arg Arg Arg Arg Thr Arg Phe Arg Arg Leu Ser Leu Arg Ile
 1 5 10 15
 Gly Pro Ser Phe Pro Gly Glu Ala Gly Val Asn Ile Leu Pro Leu His
 20 25 30
 Ala Ala Pro Gln Phe Thr Gln Gln Val Ile Asp Trp Ile Trp Tyr Ala
 35 40 45
 Phe Gly Glu Gly Met Pro Arg Ala Phe Phe Gln Ser Ile Val Glu His
 50 55 60
 Ser Leu Thr Pro Gly Glu Leu Pro Leu Thr Phe Ile Ala Val Glu Asp
 65 70 75 80
 Asp Gln Leu Leu Gly Thr Val Gly Leu Trp Arg Cys Asp Leu Ile Ser
 85 90 95
 Arg Gln Asp Leu His Pro Trp Leu Ala Ala Leu Tyr Val Asp Glu Ala
 100 105 110
 Ala Arg Gly Asn Gly Leu Ala Gly Lys Leu Gln Gln His Val Ile Gly
 115 120 125
 Tyr Ala Arg Arg Ala Gly Tyr His Glu Leu His Leu Trp Ser Ala Cys
 130 135 140
 Arg Asp Phe Tyr Glu Arg Tyr Gly Trp His Tyr Ile Gly Asp Ala Leu
 145 150 155 160
 Glu Tyr Pro Asp Lys Thr Val His Leu Tyr Arg Cys Ser Leu Thr Ala
 165 170 175
 Ser Ala Gly Asp Thr Thr Glu
 180

<210> 10891

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10891

Pro Lys Gln Tyr Leu Lys Leu Val Ala Ser Arg Gln Met His Phe Leu
 1 5 10 15
 Thr Leu Leu Arg Thr Cys Phe Leu Ser Ile Ser Lys Gln Lys Ser Ser
 20 25 30
 Val Gln Arg Gln Trp Lys Lys Met Leu Ala Gln Tyr Leu Gln Ala Trp
 35 40 45
 Leu Asn Leu Leu Leu Thr Pro Cys Ser Trp Ile Ser Gly Lys Asp Pro
 50 55 60
 Arg

530 U.S. PTO
 09/25/99
 02/18/99

65

<210> 10892

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 10892

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Asn Val Leu Ile Leu Ser Thr Gly Leu His Phe Gly Gly Arg Ile Val
1      5      10      15
Met Thr Val Lys Lys Lys Lys Thr Ala Leu Asn His Asp Asp Ile Ala
20      25      30
Asp Gly Arg Ile Val Ser Ser Arg His Leu Val Ser Glu Arg Cys Ala
35      40      45
Glu Leu Ser Glu Leu Glu Tyr Ala Leu Ile Met Thr Ser Asn Ala Phe
50      55      60
Asn Lys Trp Met Val Arg Cys Met Thr Ala Ala Gly Glu Pro Asp Met
65      70      75      80
Gly Ala Phe Asp Val Ser Leu Leu His His Val Asn His Arg Asn Arg
85      90      95
Lys Lys Lys Leu Ala Asp Ile Cys Phe Val Leu Asn Val Glu Asp Thr
100     105     110
His Val Val Thr Tyr Ala Leu Lys Lys Leu Val Lys Ala Gly Tyr Val
115     120     125
Thr Ser Glu Lys Ala Gly Lys Glu Leu Phe Phe Ser Thr Thr Glu Glu
130     135     140
Gly Lys Ala Leu Cys Met Lys Tyr Arg Glu Val Arg Glu Ala Cys Leu
145     150     155     160
Ile Asn Ile Arg Ala Glu Ser Gly Ile Pro Gly Ala Ser Ile Gly Glu
165     170     175
Thr Ala Gln Leu Arg Ala Ile Ser Ser Leu Tyr Asp Thr Ala Ala
180     185     190
Arg Ala Ala Ala Ser Leu
195

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<210> 10893

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10893

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Gly Gly Arg Met Ile Phe Lys Thr Val Val Ala Thr Leu Phe Thr Leu
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Ser Gly Leu Ala Ser Ala Leu Ala Ala Thr Pro Ala Tyr Tyr Ile Ala
20      25      30
Glu Phe Gln Ala Thr Asp Leu Asp Ala Ile Lys Pro Tyr Ser Ala Gln
35      40      45
Val Glu Ser Thr Phe Arg Pro Phe Gly Gly Arg Phe Ile Val Arg Gly
50      55      60
Gly Glu Pro Asp Val Lys Glu Gly Phe Gly Ala Gln Gly Arg Leu Val
65      70      75      80
Val Ile Lys Phe Glu Ser Leu Lys Asn Ala Gln Asp Trp Tyr Ser Ser
85      90      95
Ala Ala Tyr Gln Lys Ile Ile Pro Ile Arg His Arg Ala Gly Asn Ser
100     105     110
Arg Thr Tyr Ile Val Glu Gly Leu Pro Glu Leu Ala Pro Val Thr Pro
115     120     125

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<210> 10894

<211> 89
 <212> PRT
 <213> Enterobacter cloacae

<400> 10894

Phe	Ser	Arg	Arg	Glu	Asp	Met	Arg	Gly	Val	Val	Lys	Ile	Ile	Ile	Pro
1				5					10					15	
Phe	Gly	Gly	Glu	Lys	Arg	Arg	Leu	Thr	Met	Leu	Ile	Thr	Arg	Met	Gln
			20					25					30		
Glu	Asn	His	Val	Ala	Thr	Val	Phe	Gly	Gly	Gln	Met	Asp	Met	Pro	Ile
		35					40					45			
Arg	Lys	Gly	Val	Ala	Asp	Pro	Leu	Arg	Tyr	Leu	Gly	Lys	Asn	Met	Gly
	50					55					60				
Leu	Ser	Val	Val	Met	Asp	Leu	Val	Asp	Gly	Val	Glu	Ala	Gln	Thr	Val
65					70					75					80
Lys	Met	Ile	Leu	Arg	Glu	Pro	Glu								
					85										

<210> 10895
 <211> 389
 <212> PRT
 <213> Enterobacter cloacae

<400> 10895

Cys	Val	Pro	Glu	Arg	Glu	Arg	Asp	Arg	Gly	Asp	Arg	Thr	Ala	Ala	Tyr
1				5					10					15	
Arg	Pro	Val	Gly	His	Ser	Asp	Arg	His	Cys	Gly	Thr	Asp	His	Pro	Tyr
			20					25					30		
Asp	Ala	Ser	Ala	Thr	Pro	Arg	Cys	Gln	His	Ser	Ser	Arg	Arg	Asp	Gly
		35					40					45			
Leu	Glu	Ser	Arg	Ala	Gly	Tyr	Ala	Gly	Asp	Arg	Thr	Met	Met	Thr	Leu
	50					55					60				
Ile	Thr	Ile	Asn	Arg	Val	Tyr	Tyr	Leu	Ile	Gly	Phe	Val	Val	Met	Leu
65					70					75					80
Leu	Val	Val	Met	Thr	Leu	Arg	Asp	Arg	Ala	Asn	Pro	Lys	Arg	Tyr	Thr
				85					90					95	
Thr	Ala	Leu	Phe	Trp	Phe	Leu	Phe	Gly	Gly	Ile	Phe	Leu	Phe	Gly	Asp
		100						105					110		
Leu	Met	Val	Gln	Glu	Leu	Gly	Lys	Ser	Leu	Ala	Tyr	Arg	Ile	Ile	Gly
		115					120					125			
Gly	Ala	Val	Ile	Val	Ile	Ala	Leu	Leu	Ala	Gly	Phe	Gly	Leu	Val	Gly
	130					135					140				
Lys	Gly	Arg	Tyr	Lys	Met	Ser	Thr	Glu	Glu	Glu	Arg	Val	Ala	Ser	Ser
145					150					155					160
Asn	Arg	Leu	Lys	Asn	Trp	Leu	Phe	Leu	Pro	Ala	Leu	Met	Ile	Pro	Val
				165					170					175	
Val	Thr	Val	Ile	Gly	Thr	Leu	Phe	Leu	Lys	Gly	Val	Ser	Ile	Gly	Gly
		180						185					190		
Val	Tyr	Leu	Leu	Asp	Gln	Lys	Gln	Leu	Thr	Leu	Ala	Ala	Leu	Cys	Val
		195					200					205			
Ala	Cys	Val	Ala	Ala	Ile	Leu	Thr	Gly	Trp	Trp	Leu	Thr	Lys	Gly	Thr
	210					215					220				
Pro	Leu	His	Ala	Val	Arg	Gln	Ser	Arg	Arg	Leu	Val	Asp	Thr	Ile	Gly
225					230					235					240
Trp	Ala	Val	Ile	Leu	Pro	Gln	Met	Leu	Ala	Met	Leu	Gly	Gly	Val	Phe
				245					250					255	
Val	Val	Ala	Asn	Thr	Gly	Glu	Ser	Val	Gln	Lys	Val	Val	Ser	Leu	Phe
			260					265					270		
Val	Asn	Pro	Asp	Ser	Arg	Phe	Met	Leu	Val	Val	Ile	Tyr	Cys	Val	Gly
		275					280					285			
Met	Ala	Leu	Phe	Thr	Met	Ile	Met	Gly	Asn	Ala	Phe	Ala	Ala	Phe	Pro

290		295		300											
Val	Leu	Ser	Ala	Gly	Ile	Ala	Leu	Pro	Phe	Leu	Ile	Asn	Val	His	His
305					310					315					320
Gly	Asn	Pro	Ala	Pro	Leu	Leu	Ala	Ile	Gly	Met	Tyr	Ala	Gly	Tyr	Cys
				325					330					335	
Gly	Thr	Leu	Met	Thr	Pro	Met	Ala	Ala	Asn	Phe	Asn	Ile	Val	Pro	Ala
			340					345					350		
Ala	Leu	Leu	Glu	Leu	Lys	Asp	Lys	Tyr	Gln	Val	Ile	Lys	Ile	Gln	Ile
		355					360					365			
Pro	Thr	Ala	Leu	Thr	Leu	Leu	Val	Val	Asn	Val	Phe	Leu	Met	Tyr	Phe
	370					375					380				
Leu	Val	Phe	Arg												
385															

<210> 10896

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 10896

Gly	Ala	Ala	Met	Glu	Leu	Thr	Gln	His	Gln	Ala	Asp	Ala	Phe	Ala	Arg
1			5						10					15	
Met	Pro	Leu	Thr	Tyr	Leu	Arg	Gln	Glu	Tyr	Pro	Asn	His	Ile	Met	His
			20					25					30		
Leu	Leu	Asn	Asp	Asp	Gly	Asp	Val	Leu	Pro	Pro	Arg	Glu	Leu	His	Pro
		35				40					45				
Ile	Phe	Tyr	Gly	Cys	Phe	Asp	Trp	His	Ser	Ala	Val	His	Gly	Tyr	Trp
	50				55				60						
Leu	Leu	Leu	Arg	Cys	Leu	Arg	Leu	Trp	Pro	Glu	Leu	Pro	Cys	Arg	Glu
65				70					75						80
Glu	Ile	Ile	Thr	Leu	Phe	Glu	Glu	His	Leu	Thr	Asp	Glu	Lys	Val	Ala
			85					90						95	
Lys	Glu	Leu	Ala	Tyr	Phe	Thr	Ala	Pro	Phe	Arg	Ala	Ser	Phe	Glu	Arg
		100					105						110		
Pro	Tyr	Gly	Tyr	Gly	Trp	Leu	Leu	Ala	Leu	Ala	Gln	Glu	Leu	Lys	Gln
	115					120						125			
Ser	Ser	Leu	Pro	Gln	Ala	Glu	Arg	Trp	Tyr	Gln	Thr	Leu	Gln	Pro	Leu
	130				135					140					
Thr	Arg	Asp	Ile	Arg	Gln	Arg	Leu	Val	Asp	Tyr	Leu	Ser	Lys	Leu	Thr
145				150					155						160
Tyr	Pro	Ile	Arg	Val	Gly	Thr	His	Tyr	Asn	Thr	Ala	Phe	Ala	Leu	Ala
			165					170						175	
Leu	Gly	Leu	Asp	Tyr	Ala	Arg	Ala	Val	Asn	Asp	Asp	Thr	Leu	Glu	Arg
		180					185					190			
Ala	Ile	Leu	Asp	Ala	Ala	Thr	Arg	Phe	Tyr	Leu	Ala	Asp	Thr	Gln	Tyr
	195					200					205				
Pro	Ala	His	Tyr	Glu	Pro	Gly	Gly	Asp	Glu	Tyr	Ile	Ser	Gly	Ala	Leu
	210				215						220				
Thr	Glu	Ala	Leu	Leu	Met	Ser	Glu	Val	Val	Glu	Asp	Phe	Pro	Ala	Trp
225				230						235					240
Phe	Asp	Ala	Phe	Leu	Pro	Glu	Val	Gly	Ala	Val	Ser	Ala	Leu	Met	Asn
			245					250						255	
Pro	Ala	Glu	Val	Ser	Asp	Arg	Thr	Asp	Pro	Lys	Ile	Ala	His	Leu	Asp
	260						265						270		
Gly	Leu	Asn	Leu	Ser	Arg	Ala	Trp	Cys	Met	Lys	His	Ile	Ala	Arg	Ala
	275					280						285			
Leu	Pro	Glu	Asn	His	His	Ala	Arg	Lys	Pro	Leu	His	Asp	Ala	Val	Ala
	290				295						300				
Arg	His	Leu	Ser	Ala	Ser	Val	Glu	His	Val	Val	Gly	Ser	His	Tyr	Ser
305				310						315					320
Gly	Gly	His	Trp	Leu	Ala	Ser	Phe	Ala	Leu	Leu	Ala	Leu	Glu		

325

330

335

<210> 10897
 <211> 267
 <212> PRT
 <213> Enterobacter cloacae

<400> 10897

Cys	Thr	Gly	Phe	Ala	Leu	Leu	Arg	Ser	Ile	Lys	Asn	Ser	Arg	Arg	Arg
1				5					10					15	
Ala	Thr	Leu	Thr	Leu	Asp	Arg	Val	Thr	Phe	Met	Asp	Ser	Ser	Thr	Leu
		20						25					30		
Leu	Pro	Leu	Ile	Gly	Ile	Pro	Val	Val	Val	Ile	Gly	Phe	Ala	Leu	Arg
	35						40					45			
Phe	Asn	Pro	Leu	Leu	Val	Val	Val	Val	Ala	Gly	Leu	Ala	Thr	Gly	Leu
	50					55					60				
Leu	Val	Gly	Met	Asp	Phe	Gly	Met	Leu	Leu	Glu	Thr	Phe	Gly	Glu	Lys
65					70					75					80
Phe	Val	Asn	Ser	Arg	Ser	Leu	Ala	Thr	Phe	Ile	Leu	Ile	Leu	Pro	Val
				85					90					95	
Ile	Gly	Leu	Leu	Glu	Tyr	Tyr	Gly	Leu	Lys	Glu	Arg	Ala	Gln	Ala	Trp
		100						105					110		
Val	Ala	Lys	Ile	Ala	Ser	Ala	Thr	Ser	Ala	Arg	Ile	Leu	Met	Leu	Tyr
		115					120					125			
Phe	Val	Ala	Arg	Glu	Gly	Thr	Ala	Ala	Leu	Gly	Leu	Met	Ser	Leu	Gly
	130					135					140				
Gly	His	Ala	Gln	Thr	Val	Arg	Pro	Leu	Leu	Ala	Pro	Met	Ala	Glu	Gly
145					150					155					160
Ala	Ala	Leu	Asn	Glu	Tyr	Gly	Glu	Leu	Pro	Gln	Thr	Ile	Arg	Asp	Lys
			165						170					175	
Ile	Lys	Ala	His	Ala	Ala	Ala	Cys	Asp	Asn	Ile	Ala	Val	Phe	Phe	Gly
			180					185					190		
Glu	Asp	Ile	Phe	Ile	Ala	Phe	Gly	Ala	Val	Leu	Leu	Ile	Asp	Ala	Phe
	195						200					205			
Leu	Lys	Glu	Asn	Gly	Ile	Glu	Gly	Ile	Glu	Pro	Leu	His	Ile	Gly	Leu
	210					215					220				
Trp	Ala	Ile	Pro	Thr	Ala	Ile	Ala	Ala	Leu	Ile	Ile	His	Met	Thr	Arg
225					230					235					240
Leu	Leu	Arg	Leu	Asp	Ala	Ser	Ile	Arg	Arg	Asp	Val	Met	Ala	Trp	Lys
				245					250					255	
Ala	Glu	Gln	Gly	Thr	Gln	Glu	Ile	Ala	Pro						
			260					265							

<210> 10898
 <211> 114
 <212> PRT
 <213> Enterobacter cloacae

<400> 10898

Gln	Asp	Cys	Lys	Thr	Leu	Trp	Cys	Asn	Arg	Ser	Gln	Phe	Trp	Gln	Ser
1				5					10					15	
Phe	Tyr	Asp	Ile	Gly	Ser	Arg	Ile	Ala	Gly	Thr	Val	Ser	Asp	Arg	Asn
		20						25					30		
Asp	Leu	Leu	Val	Cys	Gly	Arg	Ala	Ile	Pro	Val	Leu	Gly	Ile	Phe	Glu
	35						40					45			
Thr	Leu	Lys	Leu	Asp	Tyr	Asn	Gln	Ser	Ala	Leu	Cys	Ser	Lys	Pro	Phe
	50					55					60				
Phe	Asn	Ile	Gly	Phe	Thr	Ser	Ser	Asp	Asp	Glu	Ala	Ser	Thr	Lys	Arg
65					70					75					80
Ser	Glu	Gly	Arg	Phe	Asn	Leu	Ser	Ala	Val	Arg	Phe	Asp	Ser	Val	Lys
				85					90					95	

Ile Gly Arg Leu Lys Leu Cys Asp Val Ile Ser Arg Arg Cys Cys Gln
 100 105 110
 Gly

<210> 10899

<211> 121

<212> PRT ,

<213> Enterobacter cloacae

<400> 10899

Leu Leu Thr Glu Arg Arg Arg Asn Lys Gln Arg Gly Glu Lys Met Val
 1 5 10 15
 His Pro Gly Gly Leu Leu Gly Leu Arg Leu Ala Leu Arg Ala Val Ala
 20 25 30
 Lys Ala Thr Leu Ser Ser Leu Val Leu Ala Ile Asn Ser His Thr Leu
 35 40 45
 Lys Gln Gln His Arg Cys Tyr Pro Gly Glu Tyr Gly Ala Ser Gly Arg
 50 55 60
 Ile Arg Thr Ser Asp Arg Ser Val Arg Ser Arg Val Leu Tyr Pro Ala
 65 70 75 80
 Glu Leu Arg Met His Arg Asp Leu Leu Leu Leu Ile Leu Gly
 85 90 95
 Ile Ala Ser Lys Ala Thr Gln Ser Lys Ile Trp Cys Ile Arg Glu Asp
 100 105 110
 Ser Asn Leu Arg Pro Leu Gly Ser
 115 120

<210> 10900

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 10900

Asn Asn Gly Ser Ser Ala Val Ile Ile Cys Leu Phe Ile Ala Phe Ile
 1 5 10 15
 Gly Ile Val Ile Ser Phe Tyr Ile Asp Tyr Arg Lys Asn Tyr Arg Gln
 20 25 30
 Val Asn Gln Ile Tyr Ala Ile Leu Thr Asn Gln Gln Leu Lys Lys
 35 40 45
 Glu Asp Tyr Gln Thr Trp Gln Asn Leu Gly Phe Trp Gly Phe Gly Phe
 50 55 60
 Leu Thr Thr Ile Leu Ser Arg Val Leu Gln Gly Lys Arg Val Arg Leu
 65 70 75 80
 Thr Glu Cys Arg Trp Leu Glu Pro Gln Ser Cys Asn Lys Phe Phe Ser
 85 90 95
 Asp Phe Asp Leu Ser Trp Val Lys Ser Tyr Arg Arg Lys Ile Leu Ile
 100 105 110
 Ala Thr Val Ile Phe Leu Leu Leu Ile Leu Ser Ser Ile Asn Ser
 115 120 125
 Val
 130

<210> 10901

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 10901

Thr Lys Ser Phe Lys Arg Met Pro Asn Arg Arg Ala Met Leu Arg Ile
 1 5 10 15

Thr Ile Pro Pro Trp Arg Cys Gly Trp Ala Thr Leu Arg Thr Pro Leu
 20 25 30
 Cys Cys Ile Arg Ser Leu Thr Gln His Asn Phe Phe Pro Ala Glu Leu
 35 40 45
 Ile Arg His Thr Arg Ile Asp Met Lys Leu Trp Leu Ser Gly Leu Ala
 50 55 60
 Leu Leu Thr Val Ala Thr Thr Ala Gln Ala Glu Asn Phe Arg Ile Val
 65 70 75 80
 Gln Ser Pro Ala Gln Lys Leu Asp Ile Trp Ile Asp Asn Ile Lys Asp
 85 90 95
 Asn Thr Pro Gln Ser Trp Cys Lys Ala Asp Val Ala Leu Arg Ile Val
 100 105 110
 Ala Asn Gly Lys Lys Glu Val Ser Val Leu Glu Asn Phe Val Pro Arg
 115 120 125
 Leu Gly Ser Leu Leu Glu His Gln Cys Ser Lys Leu Asn Thr Leu Asn
 130 135 140
 Trp Thr Leu Asn Asp Pro Glu Gly Thr Thr Leu Ala Arg Gly Thr Ala
 145 150 155 160
 Ala Lys Ala Gln Asp Trp Ala Leu Val Val Lys Gln Gln Glu Thr Thr
 165 170 175
 Ala Ala Thr Thr Thr Ser Gly Ala Leu Leu Pro Pro Asp Gln Asn
 180 185 190
 Pro Glu Thr His Thr Val Ala Ala Asp Arg Thr Pro Trp Gln Glu Phe
 195 200 205
 Thr Leu Gln Asp Gly Cys His Leu Arg Thr Phe Trp Glu Gly Gly Ser
 210 215 220
 Ser Ala Pro Ala Leu Phe Ile Pro Asp Ser Asp Thr Thr Arg Cys Gly
 225 230 235 240
 Asn Gly Ser Trp Leu Ser Gly His Thr Val Val Thr Gln Asn Arg Asn
 245 250 255
 Gly Ala Gln Lys Ala Ile Pro Val Thr Tyr Ile His Gly Phe Pro Val
 260 265 270
 Met Gly Leu Asn Asn Ala Val Asp Pro Glu Lys Ala Leu Ile Thr Ser
 275 280 285
 Val Asn Lys Glu Arg Met Val Phe Ser Thr Pro Asn Ser Asp Gln Ser
 290 295 300
 Trp Met Ile Leu Pro Tyr Asp Ser Thr Leu Asn Gly Trp Lys Ser Asn
 305 310 315 320
 Gly Thr Val Ala Val Glu Ile Thr Arg Glu Ile Ala Ser Asp Asp Ala
 325 330 335
 Arg Leu Gln Ala Arg Ile Ala Glu Val Lys Lys Ile Trp Ser Ala Trp
 340 345 350
 Val Ala Pro Gly Ala Glu Leu Asn Val Val Leu Ile Asp Thr Leu Arg
 355 360 365
 Pro Gln Leu Arg Asp Pro Ala Val Gly Ala Trp Arg Ala Ala Asn
 370 375 380

<210> 10902

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 10902

Lys Gly Ala Gly Met Ser Glu Val Ala Pro Ala Thr Leu Arg Val His
 1 5 10 15
 Arg Leu Thr Pro Leu Pro Asp Ala Phe Trp Arg Gly Val Arg Glu Thr
 20 25 30
 Pro Trp Arg Tyr Asp Leu Phe Gln Leu Leu Arg Arg Ile Asp Ala Gln
 35 40 45
 Gly Gly Glu Arg Tyr Pro Leu Gly Arg Ala Pro Leu Pro Lys Phe Glu
 50 55 60

Pro	Leu	Arg	Ile	Gly	Gln	Lys	Pro	Ser	Met	Gly	Phe	Ala	Pro	Ser	Thr
65					70					75					80
Val	Ala	Glu	Val	Arg	Gln	Arg	Glu	Glu	Asn	Gly	Leu	His	Glu	Val	Ser
				85					90					95	
Ile	Leu	Ser	Phe	Gly	Leu	Phe	Gly	Pro	Asn	Gly	Pro	Leu	Pro	Val	His
			100					105					110		
Met	Thr	Glu	Tyr	Ala	Arg	Glu	Arg	Ile	His	His	His	Gln	Asp	His	Ser
		115					120					125			
Leu	Ser	Ala	Phe	Ala	Asp	Leu	Phe	His	His	Arg	Leu	Thr	Leu	Leu	Phe
	130					135					140				
Tyr	Arg	Ala	Trp	Ala	Asp	Ala	Gln	Pro	Ala	Val	Ser	Leu	Asp	Arg	Asp
145					150					155					160
Asp	Asn	Arg	Arg	Phe	Glu	Gly	Tyr	Leu	Ala	Ser	Leu	Ile	Gly	Met	Gly
				165					170					175	
Gln	Pro	Ala	Gln	Met	Ser	Lys	Gly	Ser	Leu	Ser	Ala	His	Ala	Arg	Phe
			180					185					190		
Thr	His	Ala	Gly	His	Leu	Thr	Arg	His	Gly	Arg	Asp	Pro	Glu	Gly	Leu
		195					200					205			
Glu	Lys	Ile	Leu	Arg	Asn	Tyr	Phe	Asn	Val	Pro	Val	Arg	Leu	Val	Ala
	210					215				220					
Asn	Val	Pro	Gln	Trp	Met	Pro	Leu	Ser	Thr	Arg	Glu	Gln	Ala	Gln	Leu
225					230					235					240
Gly	Glu	Gly	Arg	Arg	Leu	Pro	Arg	Met	Gly	Glu	Ser	Ala	Phe	Leu	Gly
			245						250					255	
Ile	Ala	Val	Arg	Asp	Val	Gln	His	Lys	Phe	Arg	Leu	Glu	Ile	Gly	Pro
			260					265					270		
Leu	Ser	Ala	Asp	Asp	Tyr	Asn	Arg	Phe	Leu	Pro	Gly	Glu	Gly	Trp	Val
		275					280					285			
Thr	Glu	Leu	Arg	Asp	Trp	Val	Arg	Gln	Tyr	Ala	Gly	Val	Glu	Phe	Glu
	290					295					300				
Trp	Glu	Thr	Arg	Val	Ile	Leu	Arg	Ala	Asp	Ala	Val	Gln	Gly	Ala	Thr
305					310					315					320
Leu	Gly	Ser	Ala	Gly	Arg	Leu	Gly	Tyr	Asn	Thr	Trp	Leu	Gly	Leu	Gln
			325						330					335	
Pro	Gln	Pro	Val	Pro	Arg	Gly	Asp	Leu	Val	Tyr	Arg	Ala	Glu	Arg	
			340					345					350		

<210> 10903

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 10903

Ile	Arg	Lys	Pro	Ala	Gly	Asn	Arg	Thr	Glu	Arg	Met	Tyr	Asn	Ile	Lys
1				5					10					15	
Phe	Val	Tyr	Leu	Phe	His	Glu	Asn	Val	Ser	Pro	Ala	Leu	Phe	Ala	Lys
		20						25					30		
Ile	Ile	Arg	Pro	Ser	Val	Ala	Gly	Gln	Trp	Ile	Met	Ser	Val	Pro	Asp
		35					40					45			
His	Ser	Leu	Arg	Ser	Leu	Phe	Thr	Arg	Tyr	Asp	Leu	Leu	Arg	Thr	Ile
	50					55				60					
Thr	Gly	Ala	Asn	Pro	Tyr	Gln	Ser	Gly	Arg	Asp	Thr	Arg	Thr	Leu	Ile
65					70					75				80	
Ala	Gln	Asp	Leu	Glu	Met	Gly	Arg	Val	Val	Ala	Ile	Asp	Glu	Ser	Phe
			85						90					95	
Arg	Asp	Trp	Ser	Ser	Val	Thr	Glu	Ile	Phe	Tyr	Ile	Asn	Ala	Lys	Gly
		100						105					110		
Gln	Leu	Gln	Ala	Ala	Ser	Leu	Val	Gly	Leu	Gly	Trp	Tyr	Pro	Val	Ser
		115					120					125			
Thr	Ile	Val	Asp	Arg	Tyr	Glu	Thr	Met	Val	Arg	Thr	Tyr	Gly	Ser	Arg
	130						135					140			

Pro Ala Pro Thr Val Leu Pro Lys Gln Val Val Lys Ser Lys Thr Ala
 145 150 155 160
 Gln Val Pro Asp Glu Pro Thr Pro Gly Lys Asp Gly Lys Thr Tyr Ala
 165 170 175
 Gly Gln Leu Gln Lys Met Thr Lys Ala Glu Arg Trp Gln Ala Arg Lys
 180 185 190
 Asp Leu Ile Ala Lys Gly Ser Asn Ser Leu Tyr Pro Asp Ala Gln Ile
 195 200 205
 Ala Ala Lys Arg Leu Ala Ala Asn Asn Ile Ala Val Glu Lys Ala Lys
 210 215 220
 Leu Ala Glu Asn Ile Tyr Lys Thr Val Asn Pro Leu Glu Thr Thr Pro
 225 230 235 240
 Gly Val Pro Glu Gly Trp Thr Asp Ile Ser Asn Asp Asp Ala Leu Leu
 245 250 255
 Gly Lys Phe Gly Leu Asn Lys Ser Met Leu Phe Asp Asp Asp Thr Ser
 260 265 270
 Pro Asn Phe Leu Ala Arg Val Tyr Gln Pro Lys Pro Glu Val Phe Gly
 275 280 285
 Ala Asp Met Asn Pro Thr Leu Val Phe Arg Gly Ser Arg Glu Pro Gly
 290 295 300
 Phe Ala Ser Leu Ser Glu Asn Val Ser Ser Leu Thr Lys Gly Glu
 305 310 315 320
 Leu Ala Pro Val Val Asn Gly Ala Asp Trp Ser Asn Asn Phe Ser Gln
 325 330 335
 Gly Met Gly Met Ala Ser Asp Tyr Tyr Lys Lys Ala Val Ser Ile Gly
 340 345 350
 Lys Glu Leu Ala Arg Ser Gly Gln Asn Ile Asp Ile Ala Gly His Ser
 355 360 365
 Leu Gly Gly Gly Leu Ala Ser Ala Thr Ser Met Gly Ser Gly Lys Ala
 370 375 380
 Gly Trp Thr Phe Asn Ala Ala Gly Leu Asn Ala Gly Thr Val Glu Lys
 385 390 395 400
 Tyr Gly Gly Lys Ile Leu Gly Ser Thr Asp Asn Ile Gln Ala Tyr Arg
 405 410 415
 Val Glu Gly Glu Leu Leu Thr Lys Ile Gln Glu Val Asn Pro Trp Glu
 420 425 430
 Asp Leu Lys Thr Met Lys Gly His Val Pro Ser Trp Ile Leu Lys Glu
 435 440 445
 Glu Ile Ser Ala Leu Ser Pro Asn Ala Ala Gly Ile Pro His Asp Leu
 450 455 460
 Pro Gly Gly Thr Gly Ser Ala Leu Asp Arg His Gly Ile Asn Gln Ala
 465 470 475 480
 Ile Asp Cys Ile Glu Gln Gln Lys Asp Glu Asp Ile Ser Ile Ile Gly
 485 490 495
 Ser Arg Leu
 500

<210> 10904

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10904

Lys Arg Ser Ser Ser Arg Arg Gly Ala Asn Gly His Pro Arg Arg Leu
 1 5 10 15
 Ser Asp Cys Ser Thr Val Met Asn Ala Arg Asp Lys Val Phe Val Phe
 20 25 30
 Trp Gly Cys Met Asp Ala Leu Ala Val Val Leu Tyr Cys Ala Gln Ser
 35 40 45
 Met Arg His Asp Lys Ile Pro Phe Ile Ser Asp Ile His Ala Phe Ser
 50 55 60

Thr	Val	Val	Asn	Ala	Leu	Ser	Ala	Gly	Gly	Tyr	Ser	Ala	Leu	Val	Ile
65					70					75					80
Leu	Phe	Phe	Ile	Leu	Asp	Phe	Leu	Leu	Leu	Leu	Ser	Phe	Ile	Ala	Ser
				85						90					95
Ala	Trp	Cys	Phe	Phe	Ala	Arg	Asn	Leu	Tyr	Ala	Ser	Arg	Leu	Ala	Leu
			100					105					110		
Tyr	Gln	Glu	Ile	Leu	Arg	Leu	Val	Gly	Phe	Arg	Tyr	Ser	Val	Ser	Leu
		115					120					125			
Phe	Pro	Leu	Val	Leu	Ser	Phe	Thr	Gly	Val	Met	Asn	Val	Trp	Leu	Asn
	130					135					140				
Gly	Phe	Leu	Phe	Ile	Leu	Ser	Glu	Phe	Leu	Lys	Ile	Tyr	Ser	Leu	Trp
145					150					155					160
Ile	Tyr	Lys	Tyr	Glu	Gly	Glu	Arg	Pro	Pro	Val	Lys	Glu			
				165					170						

<210> 10905

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 10905

Leu	Thr	Arg	Cys	Val	Arg	Ser	Cys	Ala	Ile	Arg	Gln	Trp	Ala	Pro	Gly
1				5					10					15	
Ala	Arg	Arg	Ile	Lys	Gly	Gly	Ala	Met	Asn	Thr	Leu	Tyr	Gln	Arg	Leu
			20				25						30		
Ala	Gly	Glu	Ser	Ile	Ser	Asp	Ala	Leu	Leu	Arg	Leu	Glu	Ala	Glu	Ile
		35					40					45			
Lys	Ala	Arg	Pro	Ala	Asp	Ala	Asp	Leu	Arg	Ala	Ala	Phe	Val	Gln	Phe
	50					55				60					
Leu	Ile	Leu	Ser	Gly	Asn	Trp	Ala	Arg	Ala	Leu	Thr	Gln	Leu	Lys	Ser
65					70					75					80
Trp	Leu	Ala	Leu	Met	Pro	Gln	Ala	Lys	Pro	Thr	Val	Thr	Leu	Leu	Glu
				85					90					95	
Gln	Ala	Ile	Gln	Gly	Glu	Gln	Gln	Arg	Ala	Arg	Val	Phe	Ala	Gly	Glu
			100				105						110		
Ala	Arg	Pro	Ala	Met	Pro	Glu	Ala	Gln	Trp	Pro	Trp	Leu	Ser	Thr	Leu
		115				120						125			
Ala	Gln	Ala	Leu	Thr	Glu	Arg	Ala	Gly	Gln	Ala	Gln	Thr	Leu	Arg	Leu
	130					135					140				
Ala	Ala	Leu	Glu	Gln	Ala	Pro	Ala	Ser	Arg	Gly	Gln	Val	Thr	Leu	Glu
145					150					155					160
Asn	Glu	Glu	Ser	His	Thr	Phe	Glu	Trp	Leu	Met	Asp	Gly	Asp	Ala	Arg
				165					170					175	
Leu	Gly	Pro	Val	Cys	Glu	Thr	Leu	Val	Asn	Gly	Arg	Tyr	Phe	Trp	Val
		180						185					190		
Pro	Phe	Cys	Ala	Ile	Asp	Ala	Ile	Arg	Phe	Gln	Ala	Pro	Ala	Ser	Val
		195					200					205			
Thr	Asp	Leu	Val	Trp	Arg	His	Ala	Leu	Val	Arg	Leu	Thr	Asp	Gly	Thr
	210					215						220			
Glu	Gln	Val	Cys	Gln	Ile	Pro	Ala	Arg	Tyr	Pro	Phe	Ala	Asp	Gly	Ala
225					230					235					240
Ser	Asp	Ser	Val	Arg	Leu	Gly	Arg	Thr	Thr	Glu	Trp	Leu	Pro	Leu	Asp
				245						250				255	
Asp	Asp	Gly	Val	Leu	Tyr	Glu	Gly	Met	Gly	Gln	Lys	Ala	Trp	Leu	Ser
			260					265					270		
Glu	Gln	Ser	Glu	Ser	Pro	Leu	Leu	Thr	Leu	Ser	Leu	Val	Thr	Phe	Thr
		275					280						285		
Ser	Asp	Gly	Ala	Asn	Glu										
	290					295									

<210> 10906

<211> 631
 <212> PRT
 <213> Enterobacter cloacae

<400> 10906

Thr	Glu	Arg	Cys	Gly	Val	Met	Met	Glu	Ser	Lys	Leu	Leu	Glu	Tyr	Tyr
1				5					10					15	
Asn	Arg	Glu	Leu	Ala	Tyr	Leu	Arg	Glu	Met	Gly	Ala	Glu	Phe	Ala	Glu
			20					25					30		
Arg	Tyr	Pro	Lys	Val	Ala	Gly	Arg	Leu	Gly	Met	Arg	Gly	Ile	Glu	Val
		35					40					45			
Ala	Asp	Pro	Tyr	Ile	Glu	Arg	Leu	Met	Glu	Gly	Phe	Ala	Phe	Leu	Thr
	50					55					60				
Ser	Arg	Val	Gln	Met	Lys	Met	Asp	Ala	Glu	Phe	Pro	Arg	Phe	Ser	Gln
65					70					75					80
Arg	Met	Leu	Glu	Met	Ile	Ala	Pro	Asn	Tyr	Leu	Ala	Pro	Thr	Pro	Ser
				85					90					95	
Met	Ala	Ile	Ala	Glu	Ile	Gln	Pro	Asp	Ser	Ser	Arg	Gly	Asp	Leu	Ser
			100					105					110		
Lys	Gly	Phe	Ile	Val	Pro	Arg	Gly	Thr	Met	Met	Asp	Ser	Leu	Ala	Leu
		115					120					125			
Lys	Lys	Thr	Gly	Val	Thr	Cys	Ser	Tyr	Thr	Thr	Ala	His	Glu	Val	Asn
	130					135					140				
Leu	Leu	Pro	Leu	Lys	Ile	Glu	Arg	Ile	Glu	Leu	Gly	Gly	Val	Pro	Ala
145					150					155					160
Asp	Leu	Pro	Leu	Ala	Gln	Leu	Gly	Leu	Ser	Gln	Arg	Gly	Ile	Ser	Ser
				165					170					175	
Ala	Leu	Arg	Val	Arg	Ile	Ala	Cys	Asp	Gly	Pro	Gln	His	Leu	Gly	His
			180					185					190		
Leu	Asp	Phe	Asp	Arg	Leu	Glu	Phe	Phe	Leu	Ser	Gly	Pro	Asp	Ile	Glu
	195						200					205			
Ala	Leu	Lys	Leu	Leu	Glu	Leu	Val	Met	Glu	His	His	Ala	Gly	Ile	Val
	210					215					220				
Cys	Gln	Thr	Val	Ser	Lys	Gln	Pro	Gln	Arg	Gln	Leu	Leu	Ser	Ser	Asp
225					230					235					240
Ala	Leu	Arg	Gln	Glu	Gly	Phe	Asp	Ala	Asp	Gln	Ala	Leu	Leu	Pro	Asp
				245					250					255	
Asp	Leu	Arg	Asn	Phe	Asp	Gly	Tyr	Arg	Leu	Leu	Gln	Glu	Tyr	Phe	Ala
			260					265					270		
Phe	Pro	Ala	Arg	Phe	Arg	Phe	Ile	Ser	Leu	Ser	Gly	Leu	Gly	Lys	Leu
		275					280					285			
Ile	Gln	Arg	Cys	Glu	Asp	Glu	Lys	Ala	Phe	Asp	Ile	Phe	Ile	Leu	Leu
	290					295					300				
Asp	Lys	Ser	Asp	Asp	Gln	Leu	Glu	Arg	Val	Val	Asp	Ala	Ser	His	Leu
305					310					315					320
Ala	Leu	His	Cys	Thr	Pro	Val	Ile	Asn	Leu	Phe	Pro	Lys	Val	Ala	Ala
				325					330					335	
Arg	Gln	Lys	Leu	Ser	Glu	Ser	Gln	His	Glu	Tyr	His	Leu	Val	Val	Asp
			340					345					350		
Asn	Ile	Arg	Pro	Leu	Asp	Tyr	Glu	Ile	Tyr	Ala	Val	Lys	Lys	Ile	Tyr
		355					360					365			
Ala	Ser	Ala	Asp	Gly	Gln	Arg	Asp	Asp	Gln	Thr	Phe	Arg	Pro	Phe	Trp
	370					375					380				
Ser	Thr	Trp	Ser	Gly	Asp	Ala	Gly	Asn	Tyr	Gly	Ala	Tyr	Phe	Ser	Leu
385				390						395					400
Arg	Arg	Glu	Gln	Arg	Val	Leu	Ser	Glu	His	Ala	Leu	Arg	Tyr	Gly	Thr
				405					410					415	
Arg	Thr	Gly	Tyr	Ile	Gly	Ser	Glu	Val	Phe	Val	Ser	Leu	Val	Asp	Ala
			420					425					430		
Gln	His	Ala	Pro	Trp	Gln	Glu	Asn	Leu	Arg	Tyr	Ile	Ser	Ala	Glu	Val
		435					440					445			

Leu Cys Thr Ser Arg Asp Leu Pro Leu Met Leu Gln Gln Glu Leu Gly
 450 455 460
 Gln Phe Ile Met Ala Asp Ser Met Pro Val Lys Ala Leu Thr Leu Arg
 465 470 475 480
 Lys Gly Pro Thr Pro Arg Pro Ala Leu Ala Glu Gly Phe Ser Thr
 485 490 495
 Trp Arg Leu Ile Ser Gln Leu Gln Met Asn Tyr Leu Ser Leu Met Asp
 500 505 510
 Ser Glu Asn Glu Glu Gly Ala Ala Ala Leu Arg Gln Leu Leu Gly Leu
 515 520 525
 Tyr Ala Asn Leu Ala Glu Thr Pro Val Ala Arg Gln Val Asp Gly Val
 530 535 540
 Arg His Cys Val Leu Glu Pro Val His Arg Arg Val Pro Glu Pro Gly
 545 550 555 560
 Pro Val Val Phe Ala Arg Gly Ile Gly Ile Thr Leu Thr Val Asp Glu
 565 570 575
 Arg Ala Phe Ser Gly Ala Ser Pro Trp Leu Phe Gly Ser Val Leu Glu
 580 585 590
 Arg Leu Phe Ala Arg Leu Val Ser Ile Asn Ser Phe Thr Glu Phe Thr
 595 600 605
 Leu Lys Ser Gln Gln Arg Gly Glu Ile Gly Tyr Trp Ala Pro Arg Met
 610 615 620
 Gly Lys Arg Ala Leu Val
 625 630

<210> 10907

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10907

Thr Ile Leu Leu Ser Lys Lys Pro Leu Tyr Gly Lys Gln Glu Ser Met
 1 5 10 15
 Gly Leu Asn Lys Thr Val His Ile Leu Pro Leu Pro His Ile Lys Arg
 20 25 30
 Pro Val Ser Phe Asp Ser Leu Thr Phe Pro Arg Asn Asn Gly Met Asn
 35 40 45
 Val Lys Ser Leu Leu Leu Cys Phe Ile Val Glu Pro Val Lys Asp Ser
 50 55 60
 Ile Ser Asn Leu Ala Val Phe Leu Ala Gly Trp Arg Cys Ala Tyr Pro
 65 70 75 80
 Ala Tyr Ile Glu Gln Arg Tyr Gln Leu Ile Ala Arg Leu Ile Val Gly
 85 90 95
 Pro Cys Lys Arg Ser Ala Ala Gly Arg Asn Ser Gln Asn Ala Arg Ser
 100 105 110
 Gln Gln Ser Asp Ala Leu Thr Arg Pro Ser Ser Ser Ala Thr Ala Val
 115 120 125

<210> 10908

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 10908

Cys Arg Trp Gln Gln Gln Ser Leu Gln Arg Gln Arg Glu Arg Tyr Leu
 1 5 10 15
 Asp Pro Glu Leu Asn Gly Phe His Glu His Ile Phe Met Asn Asn Lys
 20 25 30
 Asn Phe His Arg Met Trp Phe Pro Phe Phe Ala Leu Ile Phe Ala Leu


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<210> 10909
<211> 344
<212> PRT
<213> Enterobacter cloacae
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<400> 10909																
Ile 1	Ser	Arg	Asp	Leu 5	Met	Asn	Ile	Asp	Glu 10	Phe	Leu	Ala	Pro	Ile	Ser	
Pro	Asp	Asn	Pro 20	Cys	Gly	Glu	Asn	Leu 25	Glu	Tyr	Asp	Ala	Asp	Phe	Gln	
Ala	Met	Gly 35	Gln	Ala	Ser	Gln	Gly 40	Lys	Ala	Glu	Gln	Gln	Phe	Gly	Asp	
Thr	Ile 50	Ile	Pro	Ala	Glu	Pro 55	Ala	Asp	Trp	Asn	Thr 60	Val	Glu	Lys	Leu	
Ala 65	Thr	Ser	Leu	Leu 70	Gly	Arg	Thr	Lys	Asp	Leu 75	Arg	Val	Met	Leu	Ala 80	
Leu	Thr	His	Ala	Trp 85	Thr	Arg	Arg	Arg	Gly 90	Leu	Ala	Gly	Tyr	Ala 95	Asp	
Gly	Leu	Leu	Leu 100	Val	Gln	Glu	Ala	Leu 105	Ser	Arg	Tyr	Trp	Glu	Gln	Leu	
Tyr	Pro	Leu 115	Leu	Glu	Glu	Tyr	Gly 120	Glu	Thr	Asp	Pro	Phe 125	Tyr	Arg	Ile	
Asn	Ala 130	Leu	Ala	Gly	Leu	Ser 135	Asp	Lys	Ser	Asp	Leu 140	Thr	Val	Ala	Val	
Arg 145	Asn	Ala	Ser	Leu 150	Leu	Arg	Ser	Asn	Gly	Asp 155	Glu	Ile	Ser	Leu	Arg 160	
Asp	Ala	Gln	Ala	Leu 165	Leu	Asp	Gly	Ser	Lys 170	Thr	Glu	Cys	Pro	Asp 175	Tyr	
Pro	Gly	Gly 180	Arg	Pro	Arg	Leu	Ile	Asp 185	Glu	Leu	Ala	Arg	Gly 190	Asp	Gln	
Pro	Gly	Thr 195	Glu	Ala	Val	Ile	Val 200	Ile	Asn	Glu	Arg	Leu 205	Leu	Ala	Ile	
Arg	Glu 210	Leu	Leu	Thr	Gly	Tyr 215	Leu	Gly	Glu	Ser	Gly 220	Val	Pro	Glu	Met	
Glu 225	Gln	Leu	Leu	Lys 230	Thr	Val	Gly	Leu	Val	Ala 235	Ser	Ala	Cys	Gln	Val 240	
Thr	Asp	Ile	Ser	Lys 245	Leu	Leu	Pro	Asn	Arg 250	Asp	Ala	Gln	Ala	Glu	Gln 255	
His	Ala	Glu	Pro	Gln	Pro	Ala	Ala	Ala	Gln	Pro	Val	Gln	Pro	Val	Thr	

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<210> 10910
<211> 210
<212> PRT
<213> Enterobacter cloacae
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<210> 10911
<211> 185
<212> PRT
<213> Enterobacter cloacae
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<400> 10911															
His	Leu	Ser	Gln	Ile	Leu	Ser	Pro	Ser	Leu	His	Pro	Leu	Asn	Ile	Ala
1				5					10					15	
Thr	Glu	Lys	His	Met	Lys	Leu	Arg	Val	Leu	Leu	Ser	Leu	Leu	Phe	Val
			20					25					30		
Met	Ala	Val	Ala	Gly	Cys	Lys	Ala	Pro	Gln	Lys	Pro	Ala	Ile	Thr	Asp
		35					40					45			
Asp	Thr	Ile	Val	Thr	Ser	Gln	Val	Asn	Gly	Ile	Thr	Leu	Thr	His	Arg
	50					55					60				

His	Ala	Val	Thr	Pro	Pro	Ala	Glu	Phe	Thr	Gln	Val	Asn	Glu	Pro	Tyr
65					70					75					80
Arg	Ala	Met	Tyr	Pro	Ala	Ser	Leu	Met	Ser	Arg	Pro	Asp	Tyr	Gly	Gly
				85					90					95	
Lys	Val	Ile	Arg	Thr	Leu	Glu	Thr	Gly	Lys	Thr	Tyr	Val	Val	Leu	Gly
			100					105					110		
Gln	Val	Glu	His	Phe	Trp	Met	Ala	Leu	Ala	Asp	Glu	Gly	Ser	Glu	Gln
		115					120					125			
Leu	Ile	Gly	Tyr	Val	Pro	Met	Arg	Ala	Val	Ile	Lys	Ala	Asp	Gln	Tyr
	130					135					140				
Glu	Ala	Thr	Val	Arg	Lys	Gln	Ala	Leu	Arg	Pro	Lys	Ala	Arg	Lys	Lys
145					150					155					160
Thr	Thr	Cys	Val	Asp	Val	Asp	Gly	Asn	Ser	Lys	Ala	Cys	Lys	Asp	Ser
				165					170					175	
Ala	Asn	Gly	Thr	Trp	Ile	Leu	Asn								
			180					185							

<210> 10912

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 10912

Met	Val	Ser	Gly	Ser	Ser	Ala	Ser	Asn	Ala	Leu	His	Asn	Arg	Lys	Glu
1				5					10					15	
Ile	Ile	Met	Thr	Lys	Ala	Glu	Lys	Val	Val	Trp	Thr	Glu	Gly	Met	Phe
			20					25					30		
Leu	Arg	Pro	His	His	Phe	Gln	Arg	Thr	Glu	Ser	Tyr	Leu	Leu	Asn	His
		35				40						45			
Val	Arg	Glu	Trp	Gly	Ala	Leu	Gln	Arg	Ser	Tyr	Leu	Trp	Gly	Phe	Leu
	50					55					60				
Asp	Leu	Glu	Leu	Asp	Glu	Ala	Met	Leu	Arg	Gln	Gly	Cys	Ile	Ala	Leu
65					70					75					80
Ser	Tyr	Cys	Ser	Gly	Leu	Leu	Pro	Asp	Gly	Thr	Phe	Phe	Gln	Val	Arg
			85					90						95	
Ser	Asp	Arg	Asn	Gly	Pro	Ala	Pro	Leu	Lys	Ile	Pro	Asp	Asn	Leu	Thr
			100					105					110		
Asn	Glu	Lys	Val	Val	Leu	Ala	Leu	Pro	Val	Arg	Arg	Gly	Gly	Arg	Glu
		115					120					125			
Glu	Val	Ile	Phe	Ser	Glu	Glu	Gln	Ser	Ser	Leu	Ala	Arg	Phe	Ile	Thr
	130					135					140				
Phe	Glu	Gln	Glu	Val	Glu	Asp	Asp	Asn	Ala	Met	Ser	Val	Gly	Glu	Ala
145					150					155					160
Thr	Val	Gln	Phe	Gly	Arg	Leu	Arg	Leu	Thr	Leu	Met	Leu	Glu	Lys	Asp
				165					170					175	
Leu	Thr	Ala	Glu	Trp	Thr	Ala	Ile	Gly	Val	Ala	Tyr	Val	Ala	Glu	Lys
		180					185						190		
Arg	Asn	Asp	Asn	His	Val	Arg	Leu	Asp	Asn	Ser	Tyr	Ile	Pro	Pro	Met
		195					200					205			
Leu	Asn	Ala	Asn	Asn	Ser	Pro	Gln	Leu	Tyr	Gly	Met	Ile	Asn	Asp	Leu
	210					215					220				
His	Gly	Leu	Leu	Val	Gln	Arg	Ser	Gln	Gln	Ile	Gly	Gly	Arg	Leu	Arg
225					230					235					240
Gln	Pro	Gly	Arg	Phe	Asn	Thr	Ser	Glu	Met	Val	Glu	Phe	Thr	Leu	Leu
				245					250					255	
Ser	Leu	Ile	Asn	Arg	His	Leu	Gly	Asp	Val	Ser	His	Leu	Lys	Thr	Leu
			260					265					270		
Pro	Leu	Phe	His	Pro	Glu	Ala	Leu	Trp	Arg	Ser	Trp	Leu	Pro	Phe	Ala
		275					280					285			
Thr	Glu	Leu	Ala	Thr	Trp	Thr	Pro	Gln	Arg	Thr	Ala	Glu	Ser	Ile	Leu
	290					295					300				

Pro Val Tyr Asp His Asp His Leu Ala Val Cys Phe Ser Lys Leu Met
 305 310 315 320
 Leu Met Leu Arg Gln Gly Leu Phe Leu Val Met Glu Asp His Ala Ile
 325 330 335
 Gln Leu Pro Leu His Glu Arg Ser Pro Gly Leu Asn Ile Val Thr Glu
 340 345 350
 Pro Gly Asp Gln His Gly Pro Arg Ile Trp Leu Arg Ala Gly Gly Lys
 355 360 365
 Ser Gln Cys Pro Arg Arg Thr Pro Ala Asn Pro Phe Ser Cys Pro Asp
 370 375 380
 Glu Gly Cys Ala Ser Leu Glu Asn Pro Arg Ser Gly Ser Ala Ser Ala
 385 390 395 400
 Ala Gly His His Ala Ser Gly Asn Ala Arg Arg Ala Ala Ala Asp Pro
 405 410 415
 Val Ala Cys Arg Leu Gln Leu Phe Arg Thr Arg Lys Gly Gln Arg Thr
 420 425 430
 Val Ala Arg Asp Gly Gln Val Arg Gly Ile Arg Ala Ala Ser Arg Arg
 435 440 445
 Gly Ile Pro Gly Ser Arg Tyr Gly Val Leu Gly His Pro
 450 455 460

<210> 10913

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 10913

Ala Val Arg Pro Arg Ser Thr Ser Thr Asp Ile Arg Ser Arg Trp Ser
 1 5 10 15
 Leu Pro Arg Thr Ala Ser Ala Thr Arg Ser Ser Phe Pro Val Ser His
 20 25 30
 Ala His Asn Arg Lys Asp Ser Arg Met Thr Asn Thr Pro Ala Met Asn
 35 40 45
 Arg Tyr Ser Trp Tyr Gly Lys Leu Pro Ser Ala Gly Asp Phe Leu Gln
 50 55 60
 Arg Arg Phe Pro Asp Thr Leu Gln Arg Gln Trp Ser His Trp Phe Gln
 65 70 75 80
 Val Gly Leu Leu Ala Trp Gln Gln Glu Glu Gln Arg Ser Gly Glu Arg
 85 90 95
 Pro Phe Ser Lys Ala Pro Val Trp Asn Phe Val Val Pro Pro Met Leu
 100 105 110
 Gly Ser Gln Met Ile Gln Met Gly Cys Leu Leu Pro Gly Arg Asp Ser
 115 120 125
 Val Gly Arg His Tyr Pro Val Cys Leu Gln Leu Ser Phe Thr Pro Ala
 130 135 140
 Glu Trp Ser Ser Arg Leu Leu Gly Gln Ala Glu Ser Trp Tyr Gln Gln
 145 150 155 160
 Leu Gly Arg Leu Gly Leu His Ala Val Arg Asn Ser Tyr Ser Ala Ser
 165 170 175
 Gln Leu Asp Glu Met Leu Met Thr Ile Pro Ala Pro Gln Pro Val Glu
 180 185 190
 Pro Gln Lys Arg Ser Asp Ile Leu Asp Val Ile Gly Tyr Asp Asp Glu
 195 200 205
 Gly Gln Ser Thr Leu Gly Trp Pro Gln Ala Ala Glu Cys Phe Asp Pro
 210 215 220
 Leu Arg Gln Thr Ser Tyr Trp Trp Thr Asn Arg Cys Asp Gly Tyr Pro
 225 230 235 240
 Leu Tyr Thr His Val His Ser Gly Asn Phe Thr Gly Gln Leu Phe Thr
 245 250 255
 Leu Leu Phe Asp Pro Ala Gly Gly Ala Arg Pro Gly Arg His Gly Leu
 260 265 270

Tyr Pro Pro Met Phe Glu
275

<210> 10914

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10914

Thr	Ser	Ser	Pro	Ser	Pro	Glu	Thr	Ser	Met	Val	Arg	Glu	Phe	Gly	Phe
1				5					10					15	
Val	Leu	Ala	Val	Lys	Ala	Asn	Val	Pro	Gly	Glu	His	Leu	Gln	Thr	His
			20					25					30		
Phe	Pro	Ala	Gln	Met	Lys	Val	Ala	Pro	Val	Ser	Lys	Ile	Arg	Asp	Leu
		35					40					45			
Val	Gln	Leu	Gln	Leu	Pro	Gly	Ile	Met	Leu	Arg	Ala	Met	Pro	Val	Ala
	50					55					60				
Pro	Pro	Gln	Ile	Pro	Trp	His	Ala	Gly	Tyr	Ser	Tyr	Phe	Glu	Leu	Glu
65					70				75					80	
Arg	Gly	Ser	Glu	Leu	Trp	His	Glu	Met	Asp	Lys	Ser	Gly	Ala	Phe	Ala
				85					90					95	
Leu	His	Leu	Ala	Gly	Glu	Phe	Pro	Gly	Leu	Asp	Met	Glu	Phe	Trp	Ala
			100					105					110		
Ile	Arg	Ser	Pro	Thr	Glu										

<210> 10915

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 10915

Trp	Phe	Val	Tyr	Ser	Trp	Gln	Arg	Tyr	Ala	Leu	Glu	Pro	Glu	Met	Arg
1				5					10					15	
Arg	Leu	Leu	Ala	Phe	Val	Leu	Ala	Leu	Asn	Thr	Ser	Tyr	Thr	Ile	Ala
			20					25					30		
His	Thr	Leu	Pro	Asp	Val	Asn	Thr	Phe	Ser	Gln	Gln	Gln	Ile	Phe	Glu
		35					40					45			
Asn	Trp	Val	Gln	Asn	Arg	Cys	Ile	Gly	Lys	Ile	Ala	Asp	Ser	Ala	Thr
	50					55					60				
Leu	Lys	Asn	Asp	Ala	Lys	Ala	Ser	Ala	Ala	Ala	Trp	Leu	Glu	Val	Ser
65					70				75					80	
Asn	Leu	Pro	Ala	Glu	Asn	Phe	Glu	Lys	Ala	Asp	Glu	Val	Ile	Asn	Ser
				85					90					95	
Leu	Leu	Lys	Gln	Lys	Leu	Gly	Gly	Thr	Ala	Pro	Ala	Asn	Tyr	Glu	Val
			100					105					110		
Leu	Lys	Cys	Ser	Leu	Ile	Ser	His	Ser	Asp	Ala	Ile	Arg	Gln	Leu	Asn
		115					120					125			
Val	Gln	Lys													

<210> 10916

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 10916

Thr	Phe	Cys	Lys	Ser	Tyr	Thr	Leu	Lys	Ile	Gln	Gly	Val	Tyr	Met	Ala
1				5					10					15	
Ser	Pro	Ser	Asn	Val	Ala	Pro	Gly	Tyr	Cys	Val	Val	Gln	Gln	Pro	Gly
			20					25					30		

Thr Leu Asp Phe Gln Ala Arg Gln Leu Phe Gly Thr Ala Arg Asn Glu
 35 40 45
 Lys Ser Glu Tyr Phe Met Gln Leu Asn Lys Asp Thr Ala Trp Leu Lys
 50 55 60
 Pro Gly Gln Ile Leu Ile Val Ala Asp Pro Leu Gly Asp Asn Gln Thr
 65 70 75 80
 Gln Gln Ile Asn Ser Leu Ala Ile Ala Lys Lys Lys Val Thr Asn Ala
 85 90 95
 Leu Ala Thr Leu Asp Gly Ala Thr Ala Glu Phe Leu Lys Asn Asn Tyr
 100 105 110
 Asp Asn Ile Lys Ala Ile Thr Gly Trp Gly Asp Thr Ile Val Gly Gly
 115 120 125
 Val Ser Gly Thr Gly Glu Ser Tyr Phe Lys Gln Ile Glu Asn Ile Leu
 130 135 140
 Ile Lys Ile Glu Ala Thr Tyr Gln Asn Gln Tyr Arg Thr Gln Gly Ala
 145 150 155 160
 Leu Phe Gly Gln Gln Phe Tyr Ala Glu Arg Asn Ala Leu Phe Ala Gln
 165 170 175
 Leu Lys Pro Leu Leu Asn Lys Ile Thr Lys Lys Gln Leu Lys Phe Lys
 180 185 190
 Asp Tyr Ala Asp Leu Lys Arg Ala Leu Gly Leu Ser Thr Lys Ser Ile
 195 200 205
 Val His Glu Trp Ser Thr Val Gly Ile Gly Ala Ile Pro Gly Tyr Ser
 210 215 220
 Thr Tyr Ile Asp Arg Ala Ala Arg Ile Ser Ser Tyr Leu Lys Ala Gly
 225 230 235 240
 Gly Trp Val Ala Leu Gly Phe Ser Phe Met Asn Thr Ser Asn Glu Val
 245 250 255
 Tyr His Ala Cys Thr Thr Gly Arg Glu His Glu Cys Ser Arg Val Ala
 260 265 270
 Val Thr Glu Tyr Ser Lys Phe Gly Gly Gly Val Ala Gly Ala Ala Leu
 275 280 285
 Gly Ser Ser Leu Ala Ala Pro Val Cys Leu Ala Leu Gly Val Pro Thr
 290 295 300
 Ala Gly Thr Gly Thr Phe Met Val Trp Ser Ser Gly Arg Thr Val Gly
 305 310 315 320
 Ala Gly Gly Lys Thr Lys Ile Val Gly
 325

<210> 10917

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10917

Gln Ala Leu Thr Gln Leu Asn Glu Val Arg Asn Gln Arg Leu Ser Ile
 1 5 10 15
 Ile Tyr Cys His Val Tyr Ala Leu Ser Leu Asp Glu Gly Asp Asp Ser
 20 25 30
 Glu Thr Gly Ala Ala Gly Phe Thr Ser Ala Val Leu Thr Thr Gly Ser
 35 40 45
 Ser Gly Gly Thr Cys Phe Phe Thr Ser Gly Ser Cys Gly Asp Cys Ser
 50 55 60
 Gly Glu Ala Ala
 65

<210> 10918

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 10918

Arg Pro Gly Gly Asp Phe Pro Val Gln Gly Gly Asp Leu Leu Gly Lys
 1 5 10 15
 Met Leu Arg Lys Pro Arg Asp Leu Phe Leu Phe Thr Leu Asn Arg
 20 25 30
 Val Ala Lys Leu Val Glu Val Gly Leu Arg Phe Ser Lys Val Ile Leu
 35 40 45
 Asn Asp Gly Ala Ala Gly Ala Glu Glu Leu Pro Val Lys Ala Arg Phe
 50 55 60
 Gln Arg Gly Val Ala His Gln Arg Cys Gly Leu Arg Pro Gln Arg Asp
 65 70 75 80
 Gln Leu Ile Leu Gln Pro Leu Lys Lys Gln Cys Cys Phe Gln Gly Ala
 85 90 95
 Leu Gln Trp
 100

<210> 10919

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10919

Cys His Lys Ala Phe Leu Ser Leu Pro Ser Ala Asn Leu Ser Lys Ser
 1 5 10 15
 Ala Phe Phe His Ala Tyr Cys Leu Phe Ile Val Phe Ser Thr Ile Ile
 20 25 30
 His Lys His Lys Arg Lys Asn Cys His Lys Leu Leu Ile Gly Phe Leu
 35 40 45
 Val Phe Ala Pro Lys Met Asp His Pro Ser Gln Lys Glu Thr Glu Cys
 50 55 60
 Thr Thr Pro His Arg Leu Ser Pro Pro Leu Leu Val Asp Leu Cys Ser
 65 70 75 80
 Leu Leu Phe Ser Ala
 85

<210> 10920

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10920

Arg Pro Trp Arg Leu Ser Ser Gly Val Met Pro Leu Val Ile Ser Ser
 1 5 10 15
 Gly Ala Gly Ser Gly Ala Gln Asn Ala Val Ser Thr Gly Val Met Gly
 20 25 30
 Gly Met Val Thr Ala Thr Val Leu Ala Ile Phe Phe Val Pro Val Phe
 35 40 45
 Phe Val Val Val Arg Arg Arg Phe Ser Arg Lys Asn Glu Asp Val Glu
 50 55 60
 His Asn His Ser Val Glu His His
 65 70

<210> 10921

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10921

Pro Pro Glu Ala Gly Val Leu Phe Cys His Ser Arg Asn Leu Ala Arg
 1 5 10 15
 Glu Arg Ser Asn Pro Leu Cys Ala Thr Leu Asn Ile Leu Thr Arg Tyr

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<210> 10922
<211> 346
<212> PRT
<213> Enterobacter cloacae
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<210> 10923
<211> 109
<212> PRT
<213> Enterobacter cloacae
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<400> 10923

Thr	Thr	Leu	Pro	His	Val	Arg	Ser	Arg	Gly	Arg	Cys	Leu	Thr	Val	Cys
1				5					10					15	
Lys	Asn	His	His	Ala	Leu	Gln	Phe	Ser	Arg	Leu	Gly	Lys	Phe	Trp	His
			20					25					30		
Ile	Leu	Pro	Lys	Pro	Ile	Val	His	Asp	Glu	Met	Thr	Gln	Tyr	Leu	Phe
		35					40					45			
Ser	Phe	Leu	Gln	His	Lys	Ser	Arg	Val	Pro	Leu	Leu	His	Ile	Gly	Glu
		50				55					60				
Trp	Leu	Lys	Pro	Glu	His	Cys	Asp	Asp	Met	Ile	Lys	Arg	Leu	Ala	Phe
65					70					75					80
Gly	Ile	Phe	Pro	Asp	Ser	Tyr	Phe	Lys	Gly	Tyr	Ser	Tyr	Asp	His	Arg
				85					90					95	
Tyr	Trp	Arg	Arg	Gly	Leu	Tyr	Arg	Gln	Gln	Tyr	Cys				
			100					105							

<210> 10924

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10924

Pro	Asn	Glu	Lys	Asn	Met	Phe	Lys	Phe	Leu	Asn	Ala	Arg	Tyr	Arg	His
1				5					10					15	
Ile	Thr	Gly	Arg	His	Asn	Ile	Pro	Tyr	Ala	Ser	Leu	Pro	Val	Thr	Arg
			20					25					30		
Asp	Leu	Val	Ala	Val	Asp	Ser	Ile	Val	Ile	Pro	Cys	Thr	Gly	Ala	Asp
		35					40					45			
Phe	Val	Glu	Glu	Ala	Leu	Leu	Ser	Ala	Thr	Phe	Ala	Glu	Arg	Tyr	Ala
		50				55					60				
Thr	Asp	Val	Ser	Glu	Ile	Val	Ile	Val	Ser	Asp	Gln	Pro	Glu	Ser	Ala
65					70				75						80
Phe	Gly	Glu	Leu	Pro	Leu	Lys	Thr	Arg	Val	Val	Thr	Leu	Thr	Leu	Pro
				85					90					95	
Lys	Arg	Glu	Glu	Gly	Tyr	Arg	Tyr	Lys	Gln	Ile	Tyr	Leu	Ser	Arg	Leu
			100					105					110		
Val	Lys	Leu	Asn	Ala	Pro	Leu	Gln	Ala	Arg	Gly	Glu	Gly	Val	Leu	Met
		115					120					125			
Ile	Asp	Ser	Asp	Leu	Asn	Leu	Lys	Met	Pro	Glu	Ile	Asn	Met	Ala	
		130				135				140					
Asp	Met	His	Ile	Tyr	Ser	Ser	Phe	Arg	Gln	Gly	Lys	Met	Ile	Ala	Lys
145					150				155						160
Leu	Asp	Gly	Ala	Pro	Ala	Glu	Lys	Val	Pro	Ala	Tyr	Tyr	Lys	Glu	Thr
				165					170					175	
Val	Arg	Pro	Tyr	Leu	Val	Asp	His	Val	Asn	Gly	Ala	Phe	Leu	Ala	Ala
			180					185					190		
Thr	Lys	Lys	Thr	Trp	Arg	Arg	Ile	Cys	Pro	Leu	Trp	Leu	Thr	Leu	Phe
		195					200					205			
Gln	Asp	Thr	Trp	Glu	Leu	Met	Asp	Asp	Thr	Gln	Pro	Pro	Thr	Asp	Gln
		210				215					220				
Leu	Pro	Leu	Ala	Ala	Leu	Leu	Asp	Met	Leu	Asp	Val	Lys	Thr	Val	Asn
225					230					235					240
Leu	Gly	Asp	Trp	Met	Asn	Trp	Pro	Val	Ser	Lys	Lys	Ile	Gly	Gly	Gln
				245					250					255	
Glu	Ala	Val	Val	Pro	Lys	Glu	Val	Ile	Gly	Ala	His	Gly	Gly	Phe	Pro
			260					265					270		
Leu	Ser	Glu	Trp	Gln	Lys	Tyr	Leu	Glu	Ser	Pro	Asp	Asn	Lys	Leu	Leu
		275					280					285			
Phe	Lys	Gly	Gln	Asp	Tyr	Thr	Arg	Lys	Val	Arg	Tyr	Leu	Thr	Asp	Glu
		290				295					300				

Glu Lys Lys Asn Gln
305 310

<210> 10925
<211> 82
<212> PRT
<213> Enterobacter cloacae

<400> 10925
Phe Arg His Gly Ser Ser Val Glu Met Gln Asn Ala Lys Asn Pro Ala
1 5 10 15
Val Ala Gly Phe Phe Asn Thr Arg Arg Leu Lys Leu Phe Asp Phe Ser
20 25 30
Phe Phe Val Gln Tyr Val Leu Ala Tyr Asn Trp Ile Glu Phe Phe Gln
35 40 45
Phe Gln Phe Phe Arg Leu Ser Thr Phe Val Leu Arg Gly Gly Val Glu
50 55 60
Val Thr Cys Thr Ser Arg Arg Asn Gln Leu Asp Phe Leu Arg Glu Tyr
65 70 75 80
Leu

<210> 10926
<211> 65
<212> PRT
<213> Enterobacter cloacae

<400> 10926
Trp Tyr Val Ala Lys Val Thr Met Ser Gly Ile Asn Val Tyr Gly Glu
1 5 10 15
Arg Trp Ser Gln Asn Ile Ser Thr Leu Ser Pro Arg Arg Arg Asn Ala
20 25 30
Thr Cys Tyr Arg Tyr Thr Asn Leu Ile Ser Pro Glu Cys Cys Ile Lys
35 40 45
Ile Ala Gln Tyr Glu Val Phe Ile Tyr Asp Ala Pro Leu Ile Thr Asp
50 55 60

65

<210> 10927
<211> 61
<212> PRT
<213> Enterobacter cloacae

<400> 10927
Pro Val Ser Ser Ala Met Ala Ser Cys Val Glu Ser Ile Ala Asp Leu
1 5 10 15
Asn Ile Asn Ala Pro Ala Gly Leu Ala Ser Gln Ser Gly Ala Asp Asn
20 25 30
Thr Val Arg Met Cys Gln His His Gly His Thr Tyr Phe Ser Tyr Gly
35 40 45
Ala Ala Gly Arg Val Asn Ala Ser Ala Leu Pro Gly
50 55 60

<210> 10928
<211> 61
<212> PRT
<213> Enterobacter cloacae

<400> 10928
Leu Val Gly Leu Ile Thr Arg Arg Ser Ser Val Gln Ile Arg Pro Pro

1		5		10		15									
Gln	Pro	Thr	Leu	Leu	Lys	Thr	Ile	Asn	Thr	Leu	Lys	Gly	Val	Phe	Leu
			20					25					30		
Tyr	Leu	Ala	Phe	Val	Lys	Met	Pro	Gly	Met	Ile	Pro	Gly	Leu	Met	Pro
		35					40					45			
Tyr	Pro	Arg	Arg	Ala	Ser	Val	Ser	Pro	Ser	Glu	Lys				
	50					55					60				

<210> 10929

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10929

Asn	Cys	Ser	Asp	Arg	His	Val	Arg	Asp	Lys	Ala	Glu	Glu	Lys	Gly	Thr
1				5					10					15	
Thr	Lys	Asn	Asn	Gln	Asp	Ile	Gly	Leu	Pro	Gly	Lys	Trp	Cys	Thr	Gly
			20					25					30		
Leu	Ser	Glu	Ser	Thr	Leu	Arg	Glu	Gly	Arg	Leu	Ser	Met	Met	His	His
		35					40					45			
Arg	Gln	Pro	Ala	Leu	Ile	Met	Val	Met	Tyr	His	Trp	Val	Thr	Arg	Gln
	50					55					60				
Thr	Ser	Asn	Ala	Ser	Asn	Ile	Lys	Leu	Phe	Phe	Lys	Lys	Arg	Gln	Glu
65					70					75					80
Arg	Ser	Leu	Thr	Phe											
				85											

<210> 10930

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 10930

Phe	Met	Lys	His	Leu	Lys	Met	Ile	Ala	Ala	Met	Leu	Leu	Leu	Thr	Pro
1				5					10					15	
Leu	Thr	Ser	Phe	Ser	Gln	Glu	Thr	Asp	Ser	Val	Glu	Ala	Leu	Asn	Lys
			20					25					30		
Tyr	Ser	Thr	Ala	Leu	Thr	Glu	Leu	Phe	Met	Lys	Glu	Leu	Gln	Lys	Ser
		35					40					45			
Gln	Gln	Ala	Lys	Asn	Pro	Gly	Gly	Met	Asp	Leu	Val	Ala	Ala	Asn	Asp
	50					55				60					
Ala	Val	Ala	Ser	Ala	Leu	Ser	Lys	Lys	Phe	Phe	Ile	Phe	Lys	Pro	Ala
65					70					75					80
Asp	Glu	Thr	Ser	Ile	Lys	Thr	Ser	Ala	Glu	Lys	Leu	Lys	Ala	Leu	Lys
				85					90					95	
Asp	Asp	Thr	Glu	Ala	Leu	Glu	Lys	Gly	Tyr	Thr	Ile	Ile	Gln	Pro	Asp
		100						105					110		
Asn	Ile	Gly	Ser	Asn	Asn	Ile	Ser	Tyr	Lys	Val	Thr	Thr	Gly	Ser	Arg
		115					120					125			
Ile	Cys	Phe	Val	Gln	Val	Thr	Arg	Ser	Lys	Ser	Ser	Ser	Asn	Thr	Arg
	130					135					140				
Thr	Val	Ala	Val	Asp	Ser	Ile	Asp	Cys	Thr	Gly	Pro	Glu	Gln	Lys	
145						150				155					160

<210> 10931

<211> 140

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222>(13)

<220>

<221>UNSURE

<222>(15)

<220>

<221>UNSURE

<222>(36)

<400> 10931

Arg	Lys	Ile	Ile	Gly	Tyr	Phe	Ser	Asn	His	Cys	Ser	Xaa	Arg	Xaa	Gly
1				5					10					15	
Trp	Tyr	Ala	Tyr	Gly	Phe	Ile	Asn	Thr	Arg	Glu	Leu	Ser	Ala	Leu	Arg
			20				25						30		
Lys	Glu	Met	Xaa	Leu	Tyr	Val	Asp	Arg	Met	Glu	Ala	Ala	Glu	Leu	Asp
		35					40				45				
Leu	His	Ala	Ile	Arg	Ser	Val	Ala	Glu	His	Arg	Leu	His	Gly	Ala	Gly
	50					55					60				
Lys	Gln	Phe	Ala	Asp	Leu	Tyr	Ser	Arg	Ile	Asp	Gly	Ala	Thr	Val	Thr
65					70					75					80
Leu	Thr	Pro	Glu	Asp	Gln	Leu	Leu	Leu	Ala	Thr	Met	Pro	Phe	Asn	Ile
				85					90					95	
Gln	Asp	Val	Glu	Asp	Ile	Val	Asn	Glu	Arg	Gly	Pro	Lys	Thr	Ile	Ser
			100					105					110		
Gly	Arg	Pro	Phe	Trp	Glu	Val	Glu	Pro	Gly	Pro	His	Asn	Tyr	Glu	Tyr
		115					120					125			
Gly	Pro	Gln	Tyr	Pro	Tyr	Phe	Pro	Asp	Gln	Arg					
	130					135					140				

<210> 10932

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10932

Met	Ser	Cys	Tyr	Gly	Asp	Lys	Met	Phe	Arg	His	Asn	Thr	Glu	Arg	Glu
1				5					10					15	
Trp	Leu	Ile	His	His	Leu	Gln	Glu	Leu	Tyr	Met	Arg	Lys	Phe	Lys	Tyr
			20					25					30		
Ile	Ile	Cys	His	Gln	Cys	Glu	Gly	His	Gly	Thr	Met	Glu	Asn	Pro	Ala
		35					40					45			
Phe	Glu	Asn	Gly	Phe	Thr	Gln	Ser	Glu	Met	Ala	Glu	Trp	Glu	Pro	Glu
		50				55					60				
Met	Arg	Glu	Lys	Tyr	Phe	Ala	Gly	Ala	Phe	Asp	Val	Arg	Cys	Asp	Val
65					70					75					80
Cys	Ala	Gly	Asp	Gly	Lys	Leu	Ser	Val	Pro	Asn	Val	Ala	Ala	Met	Ser
				85					90					95	
Phe	Ser	Glu	Arg	Arg	Val	Leu	Ala	Ala	Arg	Arg	Arg	Asp	Glu	Arg	Leu
			100					105					110		
Gln	Ala	Ala	Asp	Glu	Arg	Leu	Ser	Arg	Gln	Glu	Arg	Ala	Met	Gly	Tyr
		115					120					125			

<210> 10933

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 10933

Gly Ala Thr Ala Lys Met Lys Met Thr Lys Pro Lys Pro Val Ser Arg
 1 5 10 15
 Met Lys Arg Pro Phe Ile Ser Glu Leu Ala Glu Leu Gly Leu Ser Gly
 20 25 30
 Glu Ile Leu Ser Ile Arg Thr Asp Gly Met Gln Gly Thr Leu Ile Pro
 35 40 45
 Asp Leu Thr Ala Gly Val Ser Glu Ala Gly Arg Val Lys Thr Gly Asn
 50 55 60
 Trp Val Ile Ser Asp Lys Arg Thr Phe Asp His Val Val Leu Cys Val
 65 70 75 80
 Glu Arg Gln Asp Glu Asn His Asp Val Phe Val Gly Lys Phe Ile Gln
 85 90 95
 Leu His Val Ala Asn Lys Ser Leu Lys Ile Val Glu Met Gly Asp
 100 105 110
 Val Lys Leu Val Ala Ile Thr Ser Ser Ile Pro Thr Thr Phe Asn Gly
 115 120 125
 Gly Ile Arg Arg Phe Lys Gly Val Thr Tyr Val Ser Leu Ser Gln Thr
 130 135 140
 Ala Gln Thr Thr Ile Asp Phe Pro Lys Arg Ile Tyr Lys Glu Gly Gln
 145 150 155 160
 Glu Cys Thr Ser Val Thr Ser Pro Asp Gln Gly Pro Phe Ala Arg Asp
 165 170 175
 Val Arg Leu Asn Cys Tyr Gly Arg Cys Val Val Thr Gly Val Arg Ser
 180 185 190
 Pro Trp Arg Thr Glu Ala Ala His Leu Thr Pro Arg His Glu Glu Gly
 195 200 205
 Ile Pro Asp Val Thr Asn Gly Ile Leu Leu Arg Arg Asp Ile His Thr
 210 215 220
 Leu Phe Asp Asn Asp His Cys Ala Ile Asn Pro Asp Thr Met Lys Ile
 225 230 235 240
 Tyr Phe Ser Arg Glu Ala Arg Glu Leu Asp Asp Leu Leu Lys Trp
 245 250 255
 His Gly Asp Glu Ile Glu Thr Thr Arg Met Gln Val Pro Val Asn Ile
 260 265 270
 Glu Asn Leu Arg Ile Arg Trp Gln Lys Phe Lys Ala Lys Asp Arg Gln
 275 280 285
 Arg Lys
 290

<210> 10934

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10934

Tyr Cys Arg Ala Phe Val His Trp Lys Ser Tyr Arg Glu Ala His Met
 1 5 10 15
 Asp Arg Ile Lys Tyr Leu Lys Trp Ile Ala Glu Glu Ser Pro Ser Thr
 20 25 30
 Ala Gln Gln Leu Val Ala Trp Leu Asn Arg Ala Arg His Tyr Thr Pro
 35 40 45
 Asp Met Lys Glu His Gln Ala Gly Val Gln Ile Gln Glu Lys Gly Ile
 50 55 60
 Val Val Gly Leu Arg Gln Ser Thr Asn Arg Tyr His Gly Asp Cys Leu
 65 70 75 80
 Thr Ile His Val Val Arg Leu Pro Glu Glu Ile Gln Asn Lys Gly Trp
 85 90 95
 Phe Lys Ser Phe Leu Lys Leu Cys Cys Glu Ser Asn Pro Trp Cys Asp
 100 105 110
 Val Val Ile Glu Asp Val Lys Asn Pro Tyr Leu Leu Ser Phe Cys Lys
 115 120 125

Lys Leu Asn Phe Thr Val Leu Asp Glu Phe Tyr Pro Asn Thr Tyr Ile
 130 135 140
 Val Asn Thr Asp Ala Ile Met Ser Leu Pro Ile Pro Pro Leu Gly Arg
 145 150 155 160
 Tyr Glu Thr Tyr Leu Tyr
 165

<210> 10935

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10935

Trp Val Gln Lys Arg Gln Leu Leu Ala Leu Gly Val Ser Tyr Pro Pro
 1 5 10 15
 Lys Ser Gly Trp Ile Glu Arg Leu Ile Gly Thr Glu Val Ser Asp Glu
 20 25 30
 Gln Tyr Glu Arg Phe Leu Gly His Ser Thr Ser Lys Gln Ala Glu Gln
 35 40 45
 Ile Leu Arg Gly Glu Gln Pro Ala Lys Gly Leu Gln Tyr Ala Lys Arg
 50 55 60
 Ala Lys Lys Leu Ala Ser Glu Arg Lys Ala Thr Ile Asp Leu Asp Asn
 65 70 75 80
 Glu His Leu Ser Glu Ile Glu Lys Tyr Arg
 85 90

<210> 10936

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 10936

Lys Pro Glu Ala Val Ile Thr Gln Thr Gly Pro Tyr Ser Val Arg Ile
 1 5 10 15
 Val Met Asp Asp Lys Glu Gln Phe Thr Asn Leu Val Ala Lys His Ala
 20 25 30
 Ser Gly Leu Thr Glu Glu Gln Leu Ala Gly Tyr Asp Ala Cys Ser Leu
 35 40 45
 Asp Gly Glu Cys Val Thr Pro Ser Tyr Glu Val Phe Arg Gly Tyr Arg
 50 55 60
 Thr Arg His Thr Leu Asp Glu Phe Leu Glu Met Ala Ile Ser Leu Asn
 65 70 75 80
 Ala Ile His Pro Asp Glu Tyr Leu Thr Asp Met Leu Leu Lys Pro His
 85 90 95
 Glu Val Ile Gly Ala Leu Ala Asp Glu Gly Asp Gln Leu Asn Asn Ala
 100 105 110
 Thr Pro Val Tyr Phe Phe Pro Asp Thr Gly Val Tyr Ala Ala Val
 115 120 125
 Ser Glu Thr Arg Val Leu Asp Ala Trp Leu Cys Trp Pro Cys Tyr Pro
 130 135 140
 Ala Asn Trp
 145

<210> 10937

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 10937

Leu Phe Cys Ala Leu Leu Ala Gly Gly Ile Val Leu Ala Cys Leu Asn
 1 5 10 15

Ile	Thr	Gln	Glu	Gly	Asn	Leu	Met	Ala	Thr	Glu	Ile	Glu	Val	Met	Thr
		20						25					30		
Val	Ala	Glu	Leu	His	Ala	Gln	Leu	Gln	Gln	Leu	Val	Asp	Glu	Gly	His
		35					40					45			
Gly	Asp	Ile	Pro	Val	Cys	Ala	Ser	Asp	Leu	Arg	Ala	Arg	Tyr	Pro	Phe
	50					55					60				
Lys	Ala	Tyr	Thr	Val	Leu	Ser	Thr	Ala	Gly	Tyr	Thr	Glu	Ala	Leu	Leu
65					70					75					80
Ile	Asn	Val	Trp	Pro	Asp	Ala	His	Phe	Thr	Arg	Lys	Glu	Pro	Leu	Pro
			85						90					95	
Thr	Asn	Trp	Gly	Lys	Asn	Arg	Val	Ala	Glu	Trp	Asn	Ser	Asp	Ala	Asp
			100					105					110		
Ala	Val	Arg	Gln	Ser	Cys	Gly	Ala	Phe	Ala	Asp	Asn	Pro	Gln	Ser	Arg
		115					120					125			
Gln	Met	Thr	Gly	Asp	Asn	Leu									
	130					135									

<210> 10938

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 10938

Val	Met	Ile	Ser	Ser	Ser	Leu	Leu	Trp	Cys	Ser	Phe	Ser	Pro	Ile	Thr
1				5					10					15	
Gln	Gln	Val	Met	Asn	Thr	Arg	Pro	Val	Met	Asp	Ala	Thr	Glu	Thr	Glu
			20					25					30		
Glu	Leu	Glu	Lys	Ile	Arg	Lys	Lys	Ala	Met	Asp	Glu	Val	Thr	Ser	Ala
		35					40				45				
Leu	Gln	Ala	Leu	Glu	Asn	Lys	Phe	Pro	Gly	Ile	Thr	Glu	Gly	Ala	Ala
	50					55					60				
Ala	Leu	Ala	Gly	Ser	Gly	Val	Gly	Ala	Ala	Ala	Ser	Phe	Gly	Ala	Leu
65					70				75						80
Tyr	Thr	Leu	Gly	Thr	Thr	Gly	Val	Ser	Ala	Ala	Gly	Ile	Thr	Ser	Gly
				85				90					95		
Leu	Ala	Thr	Ala	Gly	Ser	Ile	Val	Gly	Gly	Gly	Met	Val	Ala	Gly	Ile
			100					105					110		
Ala	Val	Leu	Ala	Ala	Pro	Val	Ala	Val	Leu	Gly	Ile	Gly	Gly	Tyr	Ala
		115					120					125			
Val	Val	Lys	His	Arg	Lys	Asn	Ala	Lys	Leu	Thr	Ala	Ala	Leu	Ser	Gln
		130				135					140				
Ala	Ile	Gln	Lys	Leu	Tyr	Glu	Val	Gln	Glu	Arg	Leu	Met	Ser	Asn	Ala
145					150					155					160
Glu	Tyr	Phe	Lys	Ala	Glu	Ile	Ala	Gly	Ile	Lys	Ala	Thr	Ile	Asp	Met
			165					170						175	
Leu	Thr	Lys	Lys	Ala	Pro	Lys	Gly	Ser	Leu	Val	Ala	Val	Arg		
			180					185					190		

<210> 10939

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10939

Arg	Ala	Lys	Lys	Asp	Gly	Phe	Asn	Tyr	Met	Asn	Lys	Thr	Ala	Leu	Val
1				5					10					15	
Met	Ile	Leu	Gly	Ile	Leu	Gly	Cys	Gly	Lys	Ala	Phe	Ala	Ala	Thr	Glu
			20					25					30		
Leu	Gln	Leu	Gln	Gln	Lys	Arg	Val	Met	His	Phe	Cys	Ala	Asn	Ala	Ser
		35					40					45			
Leu	Pro	Leu	Leu	Ile	Ala	Gly	Thr	Thr	Tyr	Ala	Asn	Thr	Ser	Asp	Asn

50		55		60											
Gly	Arg	Pro	Glu	Lys	Glu	Arg	Val	Ala	Ile	Leu	Lys	Asn	Ala	Val	Val
65					70					75					80
Ser	Ser	Thr	Ala	Tyr	Ser	Met	Ala	Ser	Pro	Gly	Val	Gln	Arg	Ala	Met
				85						90				95	
Met	Ser	Val	Val	Glu	Asp	Ile	Ala	Asp	Pro	Lys	Glu	Leu	Ala	Leu	His
			100					105					110		
Gln	Lys	Glu	Val	Arg	Arg	Leu	Gly	Ala	Ser	Tyr	Leu	Ser	Asp	Ser	Gly
		115					120					125			
Val	Thr	Trp	Ala	Ser	Lys	Thr	Val	Ser	Pro	Phe	Thr	Ala	Trp	Cys	Asn
	130					135					140				
Phe	Asn	Arg	Phe	Glu	Ser										
145					150										

<210> 10940

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10940

Met	Gln	Thr	Gln	Lys	Glu	Ile	Thr	Val	Gly	Gln	Ile	Trp	Glu	Glu	Val
1				5					10					15	
Asp	Pro	Arg	Leu	Ile	Arg	Lys	Val	Arg	Val	Val	Glu	Val	Ala	Ser	Leu
			20					25					30		
Glu	Gly	Pro	Lys	Gly	Ile	Leu	Ile	Glu	Asn	Val	Glu	Ser	Gly	Arg	Lys
		35					40					45			
Asn	Trp	Ala	Ser	Ser	Ser	Arg	Phe	Asn	Gly	Lys	Arg	Gly	Gly	Tyr	Arg
	50					55					60				
Leu	Ile	Ser													
65															

<210> 10941

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 10941

Ala	Thr	Ala	Ser	Cys	Ala	Phe	Thr	Thr	Thr	Thr	Ala	Arg	Lys	Leu	
1				5					10				15		
Pro	Val	Ser	Ile	Cys	Leu	Lys	Met	Pro	Gln	Pro	Lys	Pro	Leu	Trp	Ser
			20					25				30			
Ser	Val	Asn	Cys	Ile	Val	Met	Ala	Leu	Ser	Gly	Ser	Leu	Lys	Leu	Ser
		35					40				45				
Val	Arg	Ala	Leu	Pro	Val	Ala	Trp	Arg	Leu	Leu	Pro	Pro	Ser	Thr	Ala
	50					55					60				
Leu	Thr	Ser	Lys	Ile	Thr	Leu	Asn	His	Thr	Pro	Ala	Met	Pro	Gly	Phe
65					70				75					80	
Phe	Leu	Val	Ala	Ile	Arg	Tyr	Gln	Glu	Gly	Gly	Gly	Gln	Lys	Gly	Phe
				85					90					95	
Gly	Asn	Leu	Arg	Lys	Gln	Arg	Asp	Val	Asn	Ser	Asp	Val	Ser	Leu	Leu
			100					105					110		
Lys	Ala	Gly	Asn	Gly	Phe	Phe	Ser	Gly	Cys	Trp	Leu	Lys	Pro	Val	Phe
		115					120					125			
Arg	Ala	Leu	Tyr	Gln	Gln	His	Ala	Pro	Leu	Ile	Tyr	Val	Thr	Phe	Ala
	130					135					140				
Thr	Tyr	Glu	Gly	Thr	Gly	Ser	Gly	Arg							
145					150										

<210> 10942

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10942

```

Thr Ser Leu Phe Glu Pro Gly Tyr Ser Asp Pro Phe Pro Gly Pro Phe
1      5      10      15
Ile Lys Leu Ser Leu Ala Ile Pro Ile Thr Leu Phe Phe Leu Leu Thr
      20      25      30
Lys Pro Val Ala Ile Asn Ser Glu Phe Ser Val Ser Asn Lys Glu Pro
      35      40      45
Leu Tyr Phe Gly His Asp Asn Ile Pro Val Cys Leu Glu Leu Phe Arg
      50      55      60
Gln Thr Cys Gln Gly
65              70

```

<210> 10943

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10943

```

Val Arg Leu Leu Arg Lys Leu Ile Ser Phe Gly Arg Thr Arg Lys Thr
1      5      10      15
Cys Gly Gly Asp Phe Lys His Thr Asp Phe Gly Lys Ile Ile Leu Pro
      20      25      30
Phe Thr Leu Leu Arg Arg Leu Glu Cys Ala Leu Glu Ser Thr Arg Glu
      35      40      45
Ala Ser Leu Asp Ser Gln Pro Ala Thr Ile Glu Phe Leu Glu Ala Glu
      50      55      60
Phe Ser Val Asp Phe Asp Ala Leu Leu Ser
65              70              75

```

<210> 10944

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10944

```

Arg Asp Glu Asp Met Gln His Val Thr Arg Leu Thr Pro Arg Trp Tyr
1      5      10      15
Asp Gly Leu Ala Phe Thr Phe Leu Ser Asp Arg His Tyr Val Leu Ile
      20      25      30
Ile Arg Glu Glu His Gly Met Ser Asn Glu Val Thr Lys Gly Met Leu
      35      40      45
Ser Ala Gln Val Arg Gly Gly Ile Val Arg Asp Cys Ser Val Leu Cys
      50      55      60
Ser Pro Val Gly
65

```

<210> 10945

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 10945

```

Gly Lys His Met Ser Gln Ser Pro Tyr Asp Asp Glu Phe Arg Ala Ile
1      5      10      15
Arg Tyr Ile Gln Leu Arg Gly Gln Asp Ile Ala Asn Ala His Glu Thr
      20      25      30
Ile Ser Ser Asp Ile Glu Ser Leu Lys Ala Gln Leu Thr Gly Leu Ile
      35      40      45
Ser Gly Thr Glu Leu Asp Glu Ala Glu His Leu Ala Leu Lys Glu His

```

50	55	60
His Leu Arg Glu Met Thr Pro Ser Asp Thr Ala Met His Ser Thr Ser		
65	70	75
Leu Lys Thr Ile Tyr Ser Glu Ala Asn Gln Arg Val Cys Gly Asp Ile		80
	85	90
Gly Leu Thr Thr Ile Leu Ser Thr Asp Asp Leu Ala Val Val Asp Ala		95
	100	105
Arg Ile Gln Asn His Ile Lys Glu Phe Asn Asp Arg Tyr Ala Leu Asp		110
	115	120
Ala Trp Asp Tyr Ala Ile Ala Cys Gly Cys Gly Leu Ile Ala Ser Met		125
	130	135
Leu Asp Leu Leu Cys Val Arg Ala Pro Pro Lys Pro Thr Val Ser Phe		140
145	150	155
Thr Ala Glu Val Asp Gly Ile Phe Asn Lys Gln Val Gln Lys Ala Phe		160
	165	170
Asn Ala Ile Leu Pro Glu Asp Leu Ser Lys Lys Leu Ser Glu Met Phe		175
	180	185
Pro Ile Gly Ala Pro Asp Ser Ser Ile Thr Ser Asp Leu Val Gly Ala		190
	195	200
Ala Gly Gly Val Leu Ser Pro Thr Asn His Arg Leu Arg Ala Leu Ser		205
	210	215
His Asp Pro Ile Leu Gly Ile Ile Ile Gly Ile Lys Asp Met Leu Asn		220
225	230	235
Gly Thr Cys Thr Val Val Gln Asn Gly Gln Ile Val Val Tyr Pro Ser		240
	245	250
Ser Lys Gly Val Thr Asp Glu Thr Asn Ile Phe Arg Leu Ile Ala Arg		255
	260	265
Met Phe Gly His Leu Ala Ser Asp Val Asn Ala Pro Ser Ala Lys Gly		270
	275	280
Asn Arg Gly Met Gly Leu Pro Ala Pro Phe Met Gly Leu Leu Arg Met		285
	290	295
Leu Glu Gly Ile Pro Val Gly Ser Ser Asn Phe Gly Lys Gln Ile Glu		300
305	310	315
Tyr Met Tyr Val Asn Gly Tyr Asp Phe Arg Gln Phe Ile Val Thr Ser		320
	325	330
Ile Pro Met Thr Ile Met Glu Val Leu Met Arg Val Phe Tyr Val Ala		335
	340	345
Lys Gln Val Ser Leu Gly Lys Gly Ala Phe Gly Glu Thr Leu Leu Asp		350
	355	360
Thr Met Pro Leu Arg Leu Asn Pro Arg Phe Arg Met Met Leu Ala Leu		365
	370	375
Gly Tyr Gly Thr Ser Ser Ala Val Asn Ala Gly Lys Met Tyr Ile Thr		380
385	390	395
Gly Asn Ile Leu Asn Ala Asn Tyr Ala Ser Trp Met Gly Leu Ala Trp		400
	405	410
Asn Gly Phe His Ser Leu Lys Trp Ser Leu Tyr Gln Arg His Leu Lys		415
	420	425
Leu Trp Ala Gly Ile Glu Lys Ala Glu Leu Glu Arg Leu Gln Asn Asn		430
	435	440
Ile Asp Ser Ile Glu Ala Leu Asn Ile Arg Ala Gly Asn Leu Pro Val		445
	450	455
		460
Lys		
465		

<210> 10946

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10946

Tyr Asp Arg Leu Lys Pro Arg Ile Ala Leu Gly Leu Ser Met Asn Lys

```

1           5           10           15
Gln Pro Leu Val Met Lys Ile Thr Asp Pro Trp Arg Lys Ser Glu Ser
                20           25           30
Gln Gln Val His Gln Gly Glu Asn Met Phe Ser Glu Ala Cys Gly Ile
                35           40           45
Gly Val Met Leu Gly Asn Phe Gln Ile Ala Phe Met Val Gln Gln Ala
                50           55           60
Ile Lys His Val Gly
65              70

```

<210> 10947
 <211> 128
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10947
Val Gln Ile Val His Gln Arg Cys Asp Phe Thr Ala Phe Lys Gln Leu
1           5           10           15
Ala His Leu Asn Ala Trp Leu Lys Met Asn Gly Gln Gly Gly Arg Ile
                20           25           30
Tyr Thr His Lys Ile Gly Ile Lys Gln Arg Met His Cys Trp Ser His
                35           40           45
Gln Asp Ala Ile Arg Arg Ile Val Pro Gly Ser Met Phe Asn Val Cys
                50           55           60
Arg Ile Gln Asp Thr Thr Ile Asn Pro Thr Gly Tyr Arg Thr Thr Ala
65              70              75              80
Ser Glu Ile Leu Asp Glu Gln Ser Phe Lys Phe Thr Leu Cys His Ala
                85           90           95
Thr Thr Leu Arg His Tyr Ala Leu Ala Val Leu Thr Leu Asp Ile Tyr
                100          105          110
Val Arg Phe Pro His Trp Phe Ala Gly Gly Arg Leu Asn Leu Phe
                115          120          125

```

<210> 10948
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10948
Ile Gln His Gly Cys Tyr Glu Pro Thr Ser Ala Gly Asn Ser Ile Ile
1           5           10           15
Pro Gly Val Glu Arg Val Ala Ile Ile Lys Phe Phe Asn Met Ile Leu
                20           25           30
Asp Pro Gly Ile Tyr Asn Ser Gln Val Ile Arg Gly Glu Tyr Cys Gly
                35           40           45
Gln Ser Asn Ile Thr Ala Tyr Thr Leu Val Ser Leu Ala Ile Tyr Ser
                50           55           60
Leu Glu Thr Ser Arg Met His Gly Ser Ile
65              70              75

```

<210> 10949
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10949
Phe Val Gly Asp Lys Thr Pro Pro Ala Ala Pro Thr Lys Ser Leu Val
1           5           10           15
Ile Glu Leu Ser Gly Ala Pro Ile Gly Asn Ile Ser Glu Ser Phe Leu
                20           25           30
Leu Arg Ser Ser Gly Lys Met Ala Leu Lys Ala Phe Cys Thr Cys Leu

```

35 40 45
 Leu Lys Met Pro Ser Thr Ser Ala Val Lys Leu Thr Val Gly Phe Gly
 50 55 60
 Gly Ala Leu Thr Gln Ser Lys Ser Ser Met Asp Ala Met Ser Pro His
 65 70 75 80
 Pro Gln Ala Ile Ala
 85

<210> 10950
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 10950
 Ile Val Glu Gly Ile Glu Thr Leu Ser Leu Gln Leu Asp Glu Asn Glu
 1 5 10 15
 Thr Met Ala Leu Ala Gln Leu Val Lys Arg Leu Ser Trp Ser Asp Leu
 20 25 30
 Arg Gly Cys Ala Val Ser Asp Glu Glu Ala Trp Val Met Lys Ser Ala
 35 40 45
 Ile Glu Lys Leu Gln Gln Ala Leu Arg Glu Glu Gly Tyr Ala Pro Arg
 50 55 60

65

<210> 10951
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10951
 Asn Val Ile Asn Leu Thr Pro Cys Arg Leu Thr Val Lys Lys Asp Ala
 1 5 10 15
 Leu His Thr Ser Val Ala Pro Phe Cys Thr Cys Lys Phe Leu Asn Thr
 20 25 30
 Ala Met Ala Asp Glu Tyr Ala Ala Leu Ser Leu Ser Leu Phe Ile Asn
 35 40 45
 Arg Lys Thr Ala Ile Arg Val Ser Thr Met Leu Gly Trp Leu Ala Ile
 50 55 60
 Asp Asn Asp Gly Asn Lys His Val Arg Gln Cys Phe Glu Asn Cys His
 65 70 75 80
 Thr Pro Lys Ser Ser Cys Thr Leu Ala Gly Thr Leu Cys
 85 90

<210> 10952
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 10952
 Leu Leu Ile Ile Gly Leu Asn Gly Asn Phe Val Ser Leu Arg Lys Pro
 1 5 10 15
 Gly Leu Ile Ile Ser Glu Arg Glu Asn Gly Pro Arg Glu His Leu Arg
 20 25 30
 Trp Leu Ala Phe Gln Tyr Lys Thr Val Ser Pro Gly Gly Ile Asn Phe
 35 40 45
 Ala Pro Asp Ile Ile Ile Val Ile Pro Ala Asp His Gln Glu Ser Tyr
 50 55 60
 Leu Trp Val Lys Leu Phe Tyr Phe Phe Glu
 65 70 75

<210> 10953
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10953
 Phe Gln Gly Arg Ser Gly Arg Glu Pro Lys Ile Asp Tyr Gln Gln Thr
 1 5 10 15
 Trp Arg Ala Met Ile Ser Asn Leu Ser Val Ala Ile Ile Leu Ile Arg
 20 25 30
 His His Thr Arg Leu Phe Lys Leu Ala Met Cys Asn Gln Lys Ile Gly
 35 40 45
 Asp Ala Ala Cys Tyr Gln Trp Met Val Ile Asn Asp
 50 55 60

<210> 10954
 <211> 167
 <212> PRT
 <213> Enterobacter cloacae

<400> 10954
 Ala Pro Phe Phe Leu Ile Leu Lys Leu Pro His Asp Ile Val Asn Glu
 1 5 10 15
 Ser His Pro Phe Ser Asn Pro Thr Leu Leu Lys Leu Lys Glu Ile Lys
 20 25 30
 Met Leu Pro Asp Asn Leu Val Pro Ala Lys Tyr His Ile Thr Pro Val
 35 40 45
 Glu Gln Pro Ser Thr Glu Ala Asp Lys Glu Ala Asn Phe Thr Gln Gly
 50 55 60
 Lys Arg Lys Leu Ser Asp Tyr Glu Ala Asp Ile Leu Ile Gly Val Ser
 65 70 75 80
 Arg Thr Gly Lys Ser Arg Asn Met Val Leu Glu Glu His Asp Arg His
 85 90 95
 Leu Lys Glu Arg Leu Phe Arg Ala Ile Lys Ile Glu Ala Leu Val His
 100 105 110
 Leu Leu Asn Asp Leu Gln Ala Glu Gly Glu Ile Asp Ala Gln Thr Leu
 115 120 125
 Ser Gln Ile Met Val Glu Lys Thr Gln Gln Ile Asn Glu Ala Gly Asn
 130 135 140
 Glu Ile Trp Leu Asn Leu Ile Thr Arg Glu Lys Asn Asn Pro Ile Phe
 145 150 155 160
 Tyr Asn Leu Gly Glu Asp
 165

<210> 10955
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 10955
 Phe Met Lys Lys Pro Leu Ile Val Leu Thr Val Thr Leu Met Leu Ala
 1 5 10 15
 Gly Cys Ser Thr Leu Lys Thr Asp Gln Ala Ile Pro Leu Leu Gln Ala
 20 25 30
 Glu Thr Ala Lys Met Leu Gly Leu Gly Ser Ser Asp Glu Ile Thr Val
 35 40 45
 Thr Asn Val Asn Gly Ala Gln Pro Asp Ala Leu Gly Gly Gln Lys Leu
 50 55 60
 Ser Tyr Arg Ala Thr Thr Glu Lys Gly Arg Ile Phe Asp Cys Ser Ser
 65 70 75 80
 Met Met Met Pro Gly Ile Leu Gly Ser Ala Pro Thr Leu Ser Ala Pro

85 90 95
 Thr Cys Thr Pro Val Val Thr His Lys
 100 105

<210> 10956
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10956
 Pro Ser Arg Arg Lys Arg Pro Val Ala Arg Ile Leu Glu Glu Lys Ile
 1 5 10 15
 Pro Glu Ala Lys Thr Leu Ala Val Arg Ile Leu Val Val Lys Thr Pro
 20 25 30
 Glu Ala Lys Thr Leu Ala Val Arg Ile Leu Ala Val Lys Thr Pro Glu
 35 40 45
 Val Lys Ile Leu Ala Val Arg Ile Leu Val Val Lys Thr Pro Glu Val
 50 55 60
 Lys Thr Arg Ala Ala Ala Ser Arg Ala Phe Ser Arg Pro Trp Pro Lys
 65 70 75 80
 Ala Ala Thr Ser Gly Ile Pro Leu Ala Arg Ser Pro Arg
 85 90

<210> 10957
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 10957
 Leu Arg Val Lys Lys Thr Ile Pro Phe Phe Ile Thr Trp Gly Lys Ile
 1 5 10 15
 Asn Val Asn Asp Asp Ser Gly Asn Asn Val Tyr Leu Thr Leu Asp Asp
 20 25 30
 Lys Lys Ser Asp Glu Phe Ile Leu Lys Gln Asn Leu Asp Ala Leu Lys
 35 40 45
 Lys Ile Lys Asn Asp Glu Met Thr Arg Ile Thr Gln Asp Leu Val Ser
 50 55 60
 Ile Pro Ala Thr Leu Val Arg Leu Lys Trp Gln Asn Arg Arg Glu Ile
 65 70 75 80
 Tyr Ala Leu Gln Ala Lys Glu Glu Ile Tyr Gly Ala Val Met Asn Ala
 85 90 95
 Ile Ile Glu Gln Arg Pro Glu Leu Lys Glu Lys Ile Leu Gly Arg Leu
 100 105 110
 Glu Ala Asn Tyr Gln Tyr Leu Leu Ala Arg Glu Thr Ala Thr Leu Arg
 115 120 125
 Leu Thr Arg Lys Leu Ser Glu Gly Asn Tyr Arg Thr Ser Asn Val Thr
 130 135 140
 Cys Val Ala Leu Asp Glu Glu Ala Pro Thr Ala Pro Ser Glu
 145 150 155

<210> 10958
 <211> 176
 <212> PRT
 <213> Enterobacter cloacae

<400> 10958
 Asn Gln Lys Lys Trp Ser Leu Pro Met Asn Ser Ile Phe Phe Thr Val
 1 5 10 15
 Ile Thr Leu Leu Leu Leu Thr Ala Gly Val Leu Leu Leu Met Gln Glu
 20 25 30
 Phe Asn Lys Thr Lys Val Ser Lys Asp Val Ser Glu Pro Pro Gln Pro

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<210> 10959
<211> 87
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10960
<211> 197
<212> PRT
<213> Enterobacter cloacae
```

<400> 10960																
Lys	Gly	Trp	Leu	Val	Ala	Thr	Ser	Ile	Val	Leu	Val	Thr	Gln	Asp	Cys	
1				5					10					15		
Phe	Leu	Val	Arg	Gly	Met	Arg	Leu	Phe	Phe	Pro	Asp	Ile	Ile	Cys	Leu	
			20					25					30			
Ser	Ser	Ile	Asp	Arg	Asn	Ile	Phe	Asp	Thr	Asp	Ala	Asn	Glu	Tyr	Thr	
		35					40					45				
Val	Leu	Ile	Asp	Ser	Arg	Thr	Pro	Leu	Arg	Leu	Tyr	Asp	Tyr	Leu	Ile	
	50					55					60					
Arg	His	Pro	Ala	Arg	Thr	Arg	Lys	Thr	Ile	Cys	Cys	Val	Met	Leu	Asp	
65					70					75					80	
Met	Arg	Pro	Arg	Glu	Glu	Asp	Leu	Leu	Ser	Met	Lys	Leu	Phe	Met	Asn	
				85					90					95		
Thr	Ser	Leu	Thr	Ala	Pro	Asp	Met	Ala	Ser	Leu	Phe	Asn	Leu	Val	Leu	
			100					105					110			
Asp	Met	Lys	Gly	Arg	Arg	Leu	Thr	Thr	Lys	Trp	Leu	Leu	Asn	Leu	Arg	
		115					120					125				
Leu	Ser	Arg	His	Glu	Ala	Ile	Met	Ile	Arg	Leu	Leu	Lys	Ala	Gly	Arg	
	130					135						140				

Ser Met Glu Glu Ile Ala Asp Lys Leu Asn Met Ser Val Lys Ser Leu
 145 150 155 160
 Tyr Arg Lys Arg Thr Val Leu Ser Glu Arg Leu Gly Ala Gly Asn Phe
 165 170 175
 Asn Glu Ala Cys Leu Phe Ile Phe Lys Asn Lys Leu Leu Asp Ala Val
 180 185 190
 Gly Asn Asp Pro
 195

<210> 10961
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 10961
 Ser His His Ala Ser Ala Trp Gln Ala Gly Thr Val Gly Met Arg Phe
 1 5 10 15
 Phe Gln Ser Leu Gln Asn Asp Gly Ile Ser Ala Pro Ala Gln Ile Arg
 20 25 30
 Leu Leu Asn Asn Thr Phe Leu Arg Leu Val Phe Ser Phe Ser Ala Val
 35 40 45
 Pro Phe Val Gly Ile Pro Phe Ala Ile Trp Ile Tyr Met Leu Gly Asp
 50 55 60
 Asp Leu Gly Pro Thr Ile Ile
 65 70

<210> 10962
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 10962
 Lys Arg Ile Phe Asp Val Thr Leu Pro Gly Asn Val Arg Pro Asp Ala
 1 5 10 15
 Leu Thr Pro Thr Leu Ser Leu Lys Gly Glu Gly Ala Val Cys Ala Gly
 20 25 30
 Ile Ile Leu Trp Gly Ser Leu Ser Ser Gln Gly Glu Gly Ala Asn Thr
 35 40 45
 Lys Asn Gly Asn Gly Cys Tyr Arg Phe Ala Ser Thr Met Val Leu Asn
 50 55 60
 Thr Ser Ala Thr Ala Thr Ala Pro Gly Ser Ile Thr Pro Ser Arg Phe
 65 70 75 80
 Ser Leu Phe Thr Tyr Asp Glu Arg Pro Ala Pro Ala Phe Ala Ile Phe
 85 90 95
 Ala Val Ala Ser Ala Pro Cys Cys Ala Ala Cys Ala Ala Ala
 100 105 110

<210> 10963
 <211> 121
 <212> PRT
 <213> Enterobacter cloacae

<400> 10963
 Ala Gly Arg Ser Ser Arg Lys Leu Pro Ala Asp Phe Gln Leu Ile Gly
 1 5 10 15
 Asn Trp Tyr Thr Gly Gln Met Ala Ile Leu Phe Ile Gln Lys Cys Ala
 20 25 30
 Lys Glu Cys Leu Ser Ser Cys Phe Tyr Cys Val Phe Asn Tyr Phe Tyr
 35 40 45
 Asn Arg Leu Lys His Arg Ala Gly Ala Gly Glu Cys Asp Leu Thr His
 50 55 60

Tyr Thr Lys Ala Val Leu Ser Met Gln Arg Ala Glu Met Gln Ile Tyr
 65 70 75 80
 Ser Arg Ile Leu Ile Trp Cys Cys Ile Gln Cys Arg Ile Lys Ser Leu
 85 90 95
 Phe Phe Ser Pro Gly Ala Ile Asn Glu Lys Asn His Gln Asn Ile Arg
 100 105 110
 Lys Ser Asn Tyr Val Gln Gly Glu
 115 120

<210> 10964

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 10964

Arg Phe Ile Arg Gly Pro Arg Ile Arg Pro Leu Phe His Pro Phe Ala
 1 5 10 15
 Gln Val Asn Lys Phe Glu Asp Leu Leu Gln Arg Glu Ser Gln Leu Leu
 20 25 30
 His Lys Tyr Asp Glu Gln Ala Ala His Pro Glu Ser Phe Gln Arg Ile
 35 40 45
 Ser Asn Leu Ser Gly Ile Gly Thr Gln Val Lys Trp Gln Ser Tyr Leu
 50 55 60
 Tyr Lys Asn Val Leu Lys Ser Ala Tyr Leu Val Val Phe Ile Val Tyr
 65 70 75 80
 Leu Thr Ile Phe Thr Thr Ala
 85

<210> 10965

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10965

Lys Gln Tyr Gly Val Gly Lys Thr Thr Gly Gly Val Asn Ile Gly Asn
 1 5 10 15
 Tyr Met Leu Phe Ile Lys Asn Lys Lys Val Thr Ile Asp Gly Gln Glu
 20 25 30
 Gly Asp Glu Ile Phe Ser Asn Val Asp Trp Asn Gly Ser Lys Trp Glu
 35 40 45
 Ser Gly Gly Ala Val Arg Ser Asp Gly Ile Ser Ile Ile Ser Ala Ala
 50 55 60
 Thr Thr Gly Thr Thr Thr Pro Val Ala Phe Thr Thr Ala Val Phe Pro
 65 70 75 80
 Leu Val Thr Ser Leu Ala Ile Gln Gly Thr Asp Thr Leu Ala Ile Thr
 85 90 95
 Asp Asp Thr Ser Leu Asp Gly Gln Ala Thr Ile Thr Leu Lys Tyr Leu
 100 105 110

<210> 10966

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 10966

Leu Phe Arg Arg Leu His Tyr Cys Ser Phe Glu Cys Glu Lys Lys His
 1 5 10 15
 Leu Glu Lys Gln Arg Tyr Gly Val Asp Cys Gln Met Lys Arg Leu Ile
 20 25 30

Cys Ser Leu Pro Leu Leu Val Ala Val Ser Ser His Val Ser Ala Ser
 35 40 45
 Glu Met Thr Gly Phe Ala Thr Gln Tyr Tyr Asp Glu Asp Gly Ser Leu
 50 55 60
 Thr Glu Ile Ser Thr Ile Val Pro Leu Ser Pro Thr Ile Thr Ile Gly
 65 70 75 80
 Lys Lys Thr Val Gln Met Glu Val Thr His Leu Ser Gln Ile Phe Ser
 85 90 95
 Thr Tyr Val Glu Lys Asp Ser Ser Ala His Trp Ile Cys Leu His Asp
 100 105 110
 Asp Asp Gly Thr Asn Tyr Trp Phe Ile Ser Asp Asn Glu Met Gly Ala
 115 120 125
 Gly Leu Leu Thr Ala Leu Ala Ile Ser Arg Asp Gly Ile His Lys Glu
 130 135 140
 Cys Val Asn Thr Thr Glu Arg Val Ser Val Ser Val Ser Gly Val Pro
 145 150 155 160
 Leu Leu Asn Ala Thr His Gly Asp Leu Val Glu Leu Phe Gly Lys Lys
 165 170 175
 Thr Ile Gly Asn Arg Lys Lys Ile Leu Leu Tyr Gln Glu Thr Pro Val
 180 185 190
 Gln Asp Gly Phe Val Gln Asn Asn Thr Val Ser Tyr Tyr Phe Asp Gly
 195 200 205
 Glu Lys Leu Arg Gly Val Ile Ile Gly Gln Ile Thr Ser Asn
 210 215 220

<210> 10967

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10967

Arg Gly Gly Ser Met Thr Tyr Glu Glu Leu Ile Asn Ser Pro Ala Gly
 1 5 10 15
 Glu Phe Val Met Phe Ala Ser Lys Asp Gly Lys Val Arg Ile Glu Cys
 20 25 30
 Arg Phe Glu Ser Asp Thr Leu Trp Leu Ser Gln Ala Thr Ile Cys Glu
 35 40 45
 Leu Tyr Gly Lys Ala Lys Ala Thr Ile Ser Gly His Ile Lys Asn Ile
 50 55 60
 Phe Asp Glu Gly Glu Leu Val Glu Asn Ser Val Val Arg Phe Tyr Arg
 65 70 75 80
 Thr Thr Ala Ser Asp Gly Lys Val Tyr Asn Val Gln Tyr Phe Ser Leu
 85 90 95
 Pro Val Ile Leu Thr Ile Gly Tyr Arg Arg Leu Ile Lys Met Gly Lys
 100 105 110
 Ala Gly
 115

<210> 10968

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10968

Phe Pro Ser Val Tyr Thr Phe Gly Glu Phe Cys Ala Arg Asp Arg Leu
 1 5 10 15
 Ser Asn Leu Leu Leu Pro Val Ser Asp Ala Arg Ile Ile Cys Lys Arg
 20 25 30
 Trp Leu Ser Asp Glu Lys Ile Lys Met Asp Ile Val Leu Phe Pro Gly
 35 40 45
 Gln Asn Ala Arg Ala Trp Ala Glu Thr Met Ile Asn Leu Glu Ala Arg

50		55		60											
Lys	Leu	Ile	Asn	Thr	Ala	Asn	Ile	Val	Gly	Gly	Gln	His	Leu	Ser	Asp
65					70					75					80
Gly	Leu	Ala	Arg	Ile	Lys	Phe	Met	Asp	Asp	Ile	Arg	Gln	Phe	Val	Met
				85					90					95	
Gln	Gln	Phe	Ser	Ala	Thr	Arg	Ala	Ala	Arg	Ser	Asp	Glu	Glu	Cys	Met
			100					105					110		
Glu	Cys	Leu	Lys	Asn	Ile	Arg	Ala	Glu	Asn	Glu	Ser	Leu	Leu	Glu	Gln
		115					120					125			
Ser	Arg	Met	Leu	Arg	Ser	Arg	Thr	Ala	Gln	Leu	Phe	Ala	Gln	Ile	Glu
		130					135				140				
Leu	Val	Lys	Glu	Asn	Asn	Lys	Val	Val	Gly	Tyr	Val	Ile	Ser	Ser	Ile
		145			150					155					160
Lys	Val	Val	Leu	Ser	Gly	Leu	Gln	Ile	Val	Ala	Gly	Val	Gly	Ala	Met
			165						170					175	
Met	Thr	Met	Asn	Pro	Val	Gly	Ala	Leu	Ala	Gly	Ala	Ile	Leu	Val	Met
			180					185					190		
Asp	Gly	Ala	Asn	Ala	Ile	Ser	Lys	Glu	Ile	Asn	Arg	Thr	Leu	Gln	His
		195					200					205			
Gln	Pro	Asn	Ser	Glu	Gly	Met	Leu	Ala	Asp	Gly	Val	Met	Asp	Ile	Ala
		210					215				220				
Gln	Phe	Met	Gly	Phe	Lys	Arg	Glu	Ser	Ala	Leu	Gly	Val	Phe	Asn	Ser
		225			230					235					240
Val	Ser	Leu	Ala	Ala	Ser	Val	Tyr	Thr	Val	Phe	Gly	Ala	Ile	Arg	Lys
			245						250					255	
Pro	Glu	Ser	Trp	Arg	Leu	Phe	Arg	Tyr	Leu	Pro	Leu	Asp	Phe	Tyr	Arg
			260					265					270		
Lys	Val	Asp	Gly	Met	Asn	Arg	Ala	Ala	Leu	Thr	Met	Lys	Ile	Val	Gly
		275					280					285			
Trp	Gly	Val	Ser	Ala	Lys	Val	Ser	Phe	Asp	Leu	Ile	Ser	Asn	Ala	Ser
		290			295						300				
Gly	Gln	Asn													
305															

<210> 10969

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 10969

Ser	Ser	Ala	Lys	Asn	Thr	Ala	Lys	Ser	Thr	Phe	Arg	Val	Asn	Asn	Met
1				5					10					15	
Tyr	Lys	Tyr	Leu	Pro	Ser	Glu	Arg	Ile	Asp	Ile	Leu	Glu	Asn	Asn	Leu
			20					25					30		
Ile	Cys	Phe	Asn	Asn	Pro	Leu	Asn	Phe	Asn	Asp	Pro	Phe	Glu	Phe	Asn
		35					40					45			
Thr	Ser	Phe	Asn	Phe	Ser	Ser	Phe	Glu	Ser	Asn	Leu	Tyr	Asp	Ser	Leu
	50					55					60				
Ser	Thr	Val	Asp	Leu	Leu	Lys	Glu	Phe	Pro	Ala	Glu	Leu	Leu	Asn	Gln
				70						75					80
Ile	Glu	Lys	Leu	Pro	Lys	Glu	Ile	Val	Ser	Asn	Ile	Leu	Lys	Asp	Ala
			85						90					95	
Lys	Lys	Ala	Met	Leu	Ser	Met	Tyr	Lys	Lys	Glu	Lys	Glu	Asn	Ile	Ile
			100					105					110		
Arg	Ala	Ala	Asp	Thr	Thr	Met	Gln	Ser	Phe	Asn	Ser	Lys	Leu	Ile	Gly
		115					120					125			
Ile	Thr	Arg	Ile	Leu	Ser	Leu	Thr	Glu	Thr	Pro	Thr	Asn	Ile	Leu	Met
		130				135					140				
Trp	Gly	His	Tyr	Ala	Gln	Ala	His	Ser	Gly	Phe	Ile	Ile	Glu	Phe	Asp
				150						155					160
Ile	Asn	His	Pro	Phe	Phe	Ser	Gln	Arg	Arg	Gly	Gln	Lys	Gly	Glu	Phe

				165					170				175				
Gly	Tyr	Leu	Arg	Lys	Val	Ile	Tyr	Gln	Lys	Glu	Tyr	Pro	Phe	Leu	Asp		
			180					185					190				
Pro	Phe	Ser	Gly	Asp	Gln	Ile	Asn	His	Phe	Leu	Ile	Lys	Ser	Lys	Asp		
		195					200					205					
Trp	Glu	Tyr	Glu	His	Glu	Trp	Arg	Met	Leu	Leu	Pro	Gln	Ala	Asn	Ser		
	210					215					220						
Gly	Lys	Thr	Ile	Asn	Val	Cys	Glu	Lys	Glu	Phe	Asp	Leu	Tyr	Glu	Leu		
225				230						235					240		
Pro	Ser	Asp	Ala	Ile	Lys	Thr	Ile	Ile	Phe	Gly	Cys	Asn	Thr	Ser	Glu		
			245						250					255			
His	Phe	Lys	Thr	Lys	Met	Phe	Arg	Leu	Ile	Ser	Ser	Arg	Thr	Asp	Tyr		
		260						265					270				
Glu	His	Ile	Ser	Phe	Ile	Gln	Ala	Lys	Lys	Ser	Asn	Ser	Arg	Phe	Glu		
		275					280					285					
Ile	Val	Leu	Asp	Pro	Leu												
	290					295											

<210> 10970

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10970

Leu	Thr	Ile	Gln	Asn	Gly	Asn	Ala	Glu	Glu	Leu	Cys	Leu	Leu	Lys	Lys		
1				5					10					15			
Lys	Val	Ile	Val	Ala	Arg	Tyr	Met	Trp	Tyr	Glu	Leu	Ile	Leu	Lys	Lys		
			20					25					30				
Tyr	Lys	Val	Asp	Leu	Trp	Leu	Phe	Phe	His	Phe	Lys	Asn	Asn	Asn	Asp		
		35					40					45					
Ile	Lys	Asn	Val	Ser	Ser	Ile	Lys	Met	Val	Asn	Ile	Val	Lys				
	50					55					60						

<210> 10971

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 10971

Ala	Met	Met	Leu	Leu	Pro	Arg	Leu	Tyr	Ala	Arg	Leu	Cys	Ala	Arg	Gln		
1				5					10					15			
Ala	Gly	Arg	Thr	Leu	Leu	Ala	Asn	Arg	Ile	Thr	Gln	Asn	Tyr	Ser	Gln		
		20						25					30				
Phe	Met	Arg	Cys	Pro	Glu	Ala	Asp	Val	Pro	Ala	Asp	Phe	Leu	His	Gln		
		35					40					45					
Asn	Ala	His	Glu	Leu	Ser	Gly	Phe	Asn	Phe	Val	Glu	Gln	Ile	Phe	Pro		
	50					55					60						
Pro	Ala	Leu	Trp	Ala	Arg	Asn	Val	Arg	Phe	Asp	Leu	His	Gly	Tyr	Val		
65					70					75					80		
Ala	Gln	Trp	Thr	Arg	Glu	Gln	Ala	Phe	Tyr	Ser	Ser	Ser	Arg	Thr	Leu		
			85						90					95			
Leu	Leu	Gly	Met	Arg	Trp	Ala	Gly	Phe	Gly	Leu	Ile	Val	Asp	Ala	Leu		
		100					105						110				
Leu	Ala	Thr	Ala	Pro	Ala	Asp	Val	Arg	Phe	Gln	Phe	Ile	Thr	Arg	His		
		115					120					125					
Pro	Ala	Leu	His	Lys	Leu	Met	Ala	Ala	His	Glu	Gly	Arg	Arg	Ala	Ser		
	130					135					140						
Ser	Phe	Phe	Ala	Pro	His	Arg	Leu	Val	Thr	Val	Leu	Leu	Met	Asp	Glu		
145					150					155					160		
Arg	Leu	Pro	Asp	Ala	Pro	Leu	Phe	Ser	Thr	Gln	Ala	Gly	Asp	Gln	Lys		
				165					170					175			

Ala Trp Leu Thr Asp Val Ser Thr Arg Phe Leu Ser Arg Tyr Gly Tyr
 180 185 190
 Ser Val Arg Thr Leu Leu Pro Ile Cys Ser Leu His Ala Ala Glu Phe
 195 200 205
 Gly Leu Glu Ser Gln Ala Tyr Ala Pro Glu Asp Tyr Arg Gln Ala Ala
 210 215 220
 Ala Asp Thr Leu Asn Ala Leu Arg Lys Thr Pro Thr Leu Trp Ser Ala
 225 230 235 240
 Trp Asp Asp Leu Ser Val Ile Tyr His Gly
 245 250

<210> 10972

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10972

Ser Thr Leu Leu Ser Arg Arg Lys Gly Ser Gly Met Asn Asn Ile Glu
 1 5 10 15
 Thr Gln Leu Leu Glu Ser Gly Phe Thr Val Lys Glu Leu Ala Tyr Leu
 20 25 30
 Asn Arg Asn Ile Ser Arg Tyr Gly Ser Ser Leu Leu Glu Val Val Leu
 35 40 45
 Glu Leu Gly Lys Arg Phe Ile Met Val Leu Cys Ile Thr Ala Thr Val
 50 55 60
 Ala Leu Ile Phe Leu Ala Leu Leu Phe Phe Ala Glu His Tyr Asn Ile
 65 70 75 80
 Val Ser Gly Gly Ile Ser Leu Phe Ile Val Leu Ile Ile Ala Trp Phe
 85 90 95
 Phe Gln Pro Pro Ile Ile Thr Tyr Lys Ala Trp Arg Phe Arg Lys Lys
 100 105 110
 Tyr Ile Ser Ser Val Gln Thr His
 115 120

<210> 10973

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10973

Arg Tyr Leu Ala Leu Val Gly Thr Tyr Met Ser Thr Ala Lys Arg Asp
 1 5 10 15
 Pro Asn Gln Ser Lys Ser Gly Lys Ala Pro Thr Phe Gln Ile Arg Ile
 20 25 30
 Thr Pro Glu Leu Lys Ala Gln Phe Glu Ala Ala Ala Lys Ala Glu Gly
 35 40 45
 Met Ser Leu Gly Asn Trp Leu Lys Asn Leu Gly Arg Asn Glu Leu Asn
 50 55 60
 Arg Leu Lys Lys
 65

<210> 10974

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10974

Ile Ser Asn Asp Ala Cys Arg Leu Arg Leu Lys Asn Ala Phe Ser Arg
 1 5 10 15
 Val His Tyr Arg Lys Tyr Glu Met Arg Met Thr Asn Glu Lys Glu Asn
 20 25 30

Ile Ala Gln Arg Gly Gly Ser Gly Ser Leu Pro Pro Ala Asp Asp Arg
 35 40 45
 Asp Ala Ser Asn His Ala Arg His His Cys Pro Ser Pro Ala Ala
 50 55 60

<210> 10975

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10975

Ser Asp Ala Pro Val Arg Cys Val Ala Ala Trp Arg Ala Val Val Arg
 1 5 10 15
 Leu Ala Cys Trp Ala Leu Arg Gly Leu His Pro Glu Gly Ala Glu Ala
 20 25 30
 Tyr Leu Lys Trp Ala Ala Ser Ser Lys Ile Leu Lys Val Lys Leu Cys
 35 40 45
 Val Thr Gly Arg Arg Tyr Met Pro Gly Gly Glu Ile Met Ala His Leu
 50 55 60
 Val Gly Leu Leu Pro Leu Lys Gln Val Leu Arg Arg Glu Asn Pro Arg
 65 70 75 80

<210> 10976

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10976

Asp Val Glu Phe His Arg Pro Ser Leu Ser Leu Gln Gly Val Ser Cys
 1 5 10 15
 Met Gln Ile Gly Leu Arg Asn Val Leu Pro Arg Gly Tyr Val Phe Ser
 20 25 30
 Ala Asp Phe Phe Ser Tyr Asn Thr Gly Gln Lys Ala Pro Ser Ser Lys
 35 40 45
 Asn Phe Pro His Ala Leu Val Trp Arg Trp Gly Trp Thr Ala Leu Arg
 50 55 60
 Ala Pro Ser Arg Gln Met Pro Leu Tyr
 65 70

<210> 10977

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 10977

Gly Phe Arg Lys Gly Ala Pro Leu Thr Ile His Lys Ile Asn Phe Pro
 1 5 10 15
 Gly Arg Leu Ala Thr Ser Ser Gly Ala Pro Leu Thr Leu Glu Ser Leu
 20 25 30
 Met Ala Pro Ser Pro Arg Ser Arg Ser Ala Glu Arg Leu Val Asp Ile
 35 40 45
 Ile Ile Ala Leu His Arg Asn Gly Ser Val Asn Arg Arg Asp Leu Met
 50 55 60
 Gln Lys Phe Gly Ile Thr Glu Arg Thr Val Tyr Arg Asp Leu Gln Ala
 65 70 75 80
 Leu Ser Pro Ile Ile Glu His Asp Gly Lys Gly Arg Tyr Gln Leu Leu
 85 90 95
 Pro Ala Tyr Gln Thr Cys Arg Cys Val His Cys Pro Glu Ala Asn Asp
 100 105 110

Glu Thr Pro Gln Gly
115

<210> 10978

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10978

Arg Tyr Pro Thr Pro Trp Ala Val Gln Arg Ser Val Ile Pro Thr Pro
1 5 10 15
Cys Trp Arg Ser Ser Thr Ser Ser Asn Phe Cys Ala Asn Ser Phe Ile
20 25 30
Ala Arg Lys Ala Ile Leu Tyr Ala Pro Asp Phe Asn Leu Ile His Arg
35 40 45
Ala Leu Phe Asn Ser Ala Tyr Lys Arg Lys Met Arg Asn Leu Pro Cys
50 55 60
Leu
65

<210> 10979

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10979

Ser Ile Ala Leu Arg Ala Met Lys Leu Leu Ala Gln Lys Phe Glu Leu
1 5 10 15
Val Leu Glu Arg Gln His Gly Val Gly Ile Thr Leu Arg Cys Thr Ala
20 25 30
His Gly Val Gly Tyr Arg His Gly Leu Leu Leu Gln Arg Pro Thr Arg
35 40 45
Val Ala Gln Gly Asp Gly Asp Leu Thr Leu Ile Leu Thr Gly Thr Leu
50 55 60
Ala Glu Asp
65

<210> 10980

<211> 542

<212> PRT

<213> Enterobacter cloacae

<400> 10980

Cys Arg Phe Ser Gly Thr His Cys Leu Ser Arg Lys Thr Met Met Ile
1 5 10 15
Ser Ser Ser His His Thr Arg Glu Gln Phe Glu His Cys Leu Ala Ala
20 25 30
Ile Arg Gln Ala Ser Val Glu Ile Leu Leu Leu Leu Asn Val His Val
35 40 45
Ser Glu Gly Lys Asp Pro Arg Trp Phe Leu Glu Gln Leu Asp Ser Ala
50 55 60
Arg Leu Gly Leu Gly Gly Trp Gly Ala Val Ala Arg Lys Leu Asn Leu
65 70 75 80
Asn Asp Ala Glu Met Thr Ala Phe Thr Leu Gln Leu Arg Leu Leu Gln
85 90 95
Gln Arg Val Pro Gln Tyr Glu Ser Gly Gln Asp Val Ser Glu Asn Gln
100 105 110
Leu Ile Ala Ala Met Arg Phe Val Thr Ser Leu Glu Tyr Leu Arg Leu
115 120 125
Gln Gln Pro Leu Leu Thr Tyr Glu Thr Gly Arg Val Pro Glu Lys Glu
130 135 140

Ser	Gln	Leu	Gln	Ala	Gln	Lys	Gln	Val	Arg	Ala	Ile	Glu	Leu	Met	Ile
145					150					155					160
Lys	Gly	Leu	Ile	Gln	Gln	Ala	Trp	Pro	Asp	Pro	Val	Arg	Leu	Asn	Asn
				165					170					175	
His	Leu	Lys	Thr	Leu	Phe	Asn	Ala	Glu	Arg	Val	Arg	Arg	Trp	Leu	Lys
			180					185					190		
Asn	Gly	Glu	Ile	Asn	Asp	Val	Leu	Ser	Gly	Met	Leu	Phe	Ser	Glu	Leu
		195					200				205				
Ala	Gln	Leu	Leu	Val	Asp	Lys	Lys	Glu	Phe	Ser	Arg	Tyr	Tyr	Ala	Pro
	210					215					220				
Leu	Phe	Asn	Ala	Pro	Asp	Met	Leu	Thr	Leu	Leu	Val	Glu	Pro	Arg	Lys
225					230					235					240
Thr	Leu	Gln	Thr	Phe	Leu	Glu	Asp	Ile	Arg	Gln	Ile	Arg	Asn	Ser	Ile
				245					250					255	
Thr	Val	Gln	Gln	Pro	Leu	Ser	Gly	Ala	Gln	Ile	Gln	Leu	Leu	Asp	Cys
		260						265					270		
Tyr	Tyr	Thr	Gln	Ile	Thr	Arg	Ser	Val	Gln	Arg	Ala	Phe	Glu	Glu	Gly
		275					280					285			
Arg	Thr	Arg	Val	Asn	Pro	Ala	Ala	Leu	Met	Ala	Val	Asp	Glu	Ser	Glu
	290					295					300				
Leu	His	Ala	Phe	Trp	Glu	Lys	Ala	Gln	Lys	Met	Asp	Arg	Thr	Thr	Gly
305					310					315					320
Gly	Asp	Leu	Phe	Glu	Val	Arg	Asp	Ser	Ile	Glu	Lys	Pro	Thr	Gln	Arg
				325					330					335	
Ala	Thr	Arg	Thr	Pro	Glu	Gln	Arg	Glu	Gln	Leu	Ile	Ser	Gly	Val	Leu
			340					345					350		
Trp	Gly	Ala	Val	Gly	Val	Met	Val	Ile	Ala	Ile	Val	Val	Gly	Gly	Phe
		355					360					365			
Trp	Leu	Val	Asn	Ser	Ser	Lys	Pro	Gln	Pro	Ala	Val	Ala	Ser	Thr	Ala
	370					375					380				
Ser	Pro	Ala	Pro	Val	Gln	Glu	Met	Arg	Glu	Thr	Pro	Ser	Ser	Arg	Glu
385					390					395					400
Thr	Leu	Thr	Arg	Met	Gly	Val	Thr	Trp	Asp	Glu	Asn	Asn	Phe	Arg	Ser
				405					410					415	
Ala	Ile	Ser	Arg	Asn	Asp	Thr	Arg	Val	Ala	Leu	Leu	Phe	Leu	Gln	Gly
			420					425					430		
Gly	Met	Asp	Trp	Lys	Met	Ser	Trp	Thr	Glu	Glu	Ala	Leu	Ser	Ala	Gly
	435						440				445				
Tyr	Asp	Asp	Val	Leu	Glu	Val	Met	Leu	Arg	Tyr	Arg	Leu	Gln	Met	Thr
	450					455					460				
Glu	Gln	Lys	Pro	Cys	Arg	Arg	Phe	Ile	Asn	Thr	Leu	Ser	His	Ala	Met
465					470					475					480
Ala	Asn	Gly	Glu	Ser	Leu	Thr	Pro	Met	Arg	Lys	Gln	Tyr	Leu	Lys	Ala
				485					490					495	
Phe	Cys	Thr	Val	Pro	Ala	Val	Val	Lys	Arg	Gln	Gln	His	Asp	Ala	Asp
			500					505					510		
Met	Ala	Thr	Arg	Arg	Ala	Lys	Thr	Gln	Pro	Asp	Ala	Ser	Thr	Lys	Lys
	515						520					525			
Trp	Gln	Ser	Ile	Gln	Thr	Ala	Ile	Tyr	Glu	Val	Ile	Arg			
	530					535					540				

<210> 10981

<211> 143

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (12)

<220>

<221>UNSURE

<222>(94)

<400> 10981

His	Cys	Val	Asp	Tyr	Ile	Tyr	Val	Arg	Phe	Asp	Xaa	Asn	Ser	Ile	Phe
1				5					10					15	
Gln	Lys	His	Tyr	Leu	Leu	Lys	Lys	Arg	Asp	Val	Phe	Lys	Gly	Lys	Ala
			20					25					30		
His	Leu	Asp	Thr	Glu	Val	Met	Ala	Asp	Trp	Val	Asp	Thr	Gln	Lys	Glu
			35				40					45			
Ile	Asn	Leu	Phe	Thr	Leu	Asp	Ser	Leu	Ser	Asn	Ile	Asn	Asn	Thr	Asp
	50					55				60					
Glu	Phe	Asn	Arg	Lys	Gly	Asn	Glu	Arg	Leu	Asn	Glu	Ile	Tyr	Glu	Ser
65					70				75					80	
Arg	Arg	Val	His	Gly	Lys	Asp	Ile	Lys	Lys	Asn	Arg	Lys	Xaa	Glu	Leu
				85					90					95	
Asp	Ser	Leu	Gly	Arg	Thr	His	Val	Ala	Asn	Gly	Arg	Ser	Glu	Pro	Ile
			100					105					110		
Leu	Pro	Ser	Ser	Ser	Asn	Val	Leu	Leu	Leu	Pro	Gly	Arg	Glu	Glu	Lys
		115					120					125			
Gln	Arg	Trp	Leu	Lys	Gly	Lys	Lys	Lys	Thr	Glu	Asp	Ala	Glu		
	130					135					140				

<210> 10982

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 10982

Lys	Ala	Leu	Arg	Val	Arg	Leu	Leu	Leu	Arg	Lys	Lys	Ile	Arg	Asp	Met
1				5					10					15	
Lys	Met	His	Val	Lys	Ile	Thr	Ala	Lys	Leu	Met	Ala	Lys	Met	His	Leu
			20					25					30		
Val	Leu	Ala	Leu	Val	Trp	Ala	Ile	Leu	Thr	Ile	Pro	Thr	Leu	Leu	Trp
			35				40					45			
Trp	Lys	Asn	Ser	Ile	Leu	Trp	Val	Ser	Leu	Met	Ser	Ile	Tyr	Ala	Ile
	50					55					60				
Val	Ile	Ser	His	Leu	Ala	Tyr	Ser	Ala	Ala	His	Ala	Glu	Lys	Ala	
65					70				75					80	
Ala	Ser	Lys	Ala	Met	Asp	Lys	Ser	Glu	Gly	Ala	Ser	Gln	Lys	Ala	Asn
				85					90					95	
Gln	Thr	Ala	Asn	Ser	Leu	Gln	Gly	Asn	Ala	Arg	Gln	Ala	His		
			100					105					110		

<210> 10983

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10983

Met	Ile	Cys	Tyr	Leu	Leu	Gly	Lys	Pro	Glu	Arg	Lys	Glu	Trp	Glu	Leu
1				5					10					15	
Phe	Pro	Asp	Ile	Asn	His	Arg	Val	Ile	Lys	Leu	Ser	Gln	Ile	Glu	Lys
			20					25					30		
Val	Thr	Phe	Asp	Arg	Arg	Lys	Glu	Met	Met	Val	Ser	Lys	Arg	Leu	Lys
			35				40					45			
Ala	Lys	Asp	Tyr	Arg	Thr	Val	Ser	Thr	Gly	Phe	Asn	Val	Leu	Ser	Ser
	50					55				60					
Lys	Pro	Gly	Leu	Ile	Thr	Leu	Ala	Ile	Ala	His	Ser	Tyr	Ala	Val	Thr
65					70				75					80	

<210> 10984
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 10984
 Gly Ala Ile Pro Ser Trp Ile Trp His Gly Arg Cys Ile Glu Lys Arg
 1 5 10 15
 Leu Thr Arg Ser Arg Ser Lys Phe Arg Ser Gly Phe Pro Ile Ala Val
 20 25 30
 Arg Pro Arg Glu Lys Pro Gly Arg Glu Asn Arg Tyr Pro Ala Ala Ala
 35 40 45
 Val Lys Asn Val Asn Gln Ser Pro Tyr Gly His Gly Ser Gly Pro Val
 50 55 60
 Pro Ser Leu
 65

<210> 10985
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 10985
 Cys Asn Ile Cys Leu Thr Gly Asp Gln His Leu Cys Ser Val Val His
 1 5 10 15
 Phe Trp Cys Ser Val Gln Ala Glu Gly Tyr Leu Phe Gly Glu Tyr Val
 20 25 30
 Ser Leu Phe Thr Phe Phe Gly Lys Met Lys Ala Leu Gly Lys Lys Glu
 35 40 45
 Gly Ala Leu His Gly Glu Phe Ala Leu Ala Gly Gln Arg Ala Pro Asp
 50 55 60
 Gly Ser Arg Lys Lys Asn Ser Asp Gly His Arg Asp His Cys Ala Arg
 65 70 75 80
 Ser Ala Phe Gly Ala Gly Leu Ser Phe Ala Ala Gly Ala Ser Pro Ala
 85 90 95
 Ser Leu Ala His Leu Ala Gly
 100

<210> 10986
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 10986
 Ile Cys Arg Phe Phe Ile Arg His Gly Arg Arg Pro Gly Asp Gln Phe
 1 5 10 15
 His Asn Thr Ala Pro Gly Gly Leu Ser Ile Ala Glu Ser Ile Pro Phe
 20 25 30
 Thr Leu Leu Ile Arg Lys Arg Glu Arg Leu Trp Arg Gly Lys His Leu
 35 40 45
 Pro Ala Gly Ser Gly Glu Ser Gly Tyr Arg Leu Ile Lys Ile Ile Asn
 50 55 60
 Ile Asn Ser Lys Met Leu Glu Ala Lys Val Ala Gly Ala Gly Gly His
 65 70 75 80
 Ser Leu Phe Arg Ala Met His Phe Glu Lys Phe Asn Ala Gly Ser Met
 85 90 95
 Gly His Asn Lys His Ala Asn Gly Val Asn Phe Cys Ala Gly Lys
 100 105 110

<210> 10987
 <211> 178
 <212> PRT
 <213> Enterobacter cloacae

<400> 10987
 Gln Glu Phe Thr Met Pro Ser Ser Val Arg Gly Ile Asp His Ile Gly
 1 5 10 15
 Ile Thr Val Pro Asp Ile Glu Lys Ala Thr Leu Phe Phe Glu Arg Ala
 20 25 30
 Phe Gly Ala Gln Val Leu Tyr His Ser Val Asp Ala Glu Thr Asp Asn
 35 40 45
 Ile Asp Gln Ala Ala Gln Gln His Thr Leu Lys Leu Phe Pro Gly Thr
 50 55 60
 Lys Ile His Ala Ile Arg Met Leu Val Met Pro His Gly Pro Gly Ile
 65 70 75 80
 Glu Leu Phe Glu Met His Gly Pro Glu Gln Gly Met Pro Ala Arg Ala
 85 90 95
 Ser Asp Phe Gly Leu Gln His Phe Ala Val Tyr Val Asp Asp Phe Asp
 100 105 110
 Lys Ala Ile Ala Ala Phe Thr Ala Ala Gly Gly Glu Met Phe Thr Ala
 115 120 125
 Pro Lys Pro Leu Thr Phe Pro Asp Glu Gln Gly Glu Gly Asn Ala Phe
 130 135 140
 Cys Tyr Gly Gln Thr Pro Trp Gly Ser Ile Val Glu Leu Ile Ser Trp
 145 150 155 160
 Pro Thr Pro Met Pro Tyr Glu Lys Thr Thr Asn Leu Arg Arg Trp Lys
 165 170 175
 Pro

<210> 10988
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 10988
 Gly Val Gln Phe Leu Thr Gly Asn Lys His Pro Asn Ser His Val Pro
 1 5 10 15
 Ser Arg Arg Tyr Gln Phe Leu Pro Glu Arg Val Lys Gly Gly Pro Glu
 20 25 30
 Ser Val Arg Phe Ser Thr His Ile Pro Glu Asn Ile Asp Val Gln Gln
 35 40 45
 Val Thr Phe Arg Gln Cys His Thr Pro Gly Glu Glu Tyr Thr His His
 50 55 60
 Ser Val Cys Gln
 65

<210> 10989
 <211> 84
 <212> PRT
 <213> Enterobacter cloacae

<400> 10989
 Arg Tyr Val Pro Tyr Gln Met Tyr Pro Glu Lys His His Ile Leu Thr
 1 5 10 15
 Ile Ala Tyr Ile Ala Phe Val Ser Thr Leu Ile Phe Ile Leu Arg Thr
 20 25 30
 Cys Ser Gln Leu Val Asn Tyr Leu Glu Val Thr Glu Ile Cys Gln Ile
 35 40 45
 Leu Tyr Cys Asp Tyr Tyr Cys Val Gly Ile Asn Asp Val Val His Tyr

50		55		60
Leu Asn Lys Lys Arg	Leu Arg Asp Arg Tyr	Pro Glu Asn Val Val Ser		
65	70	75		80
Pro Gly Gly				

<210> 10990
 <211> 283
 <212> PRT
 <213> Enterobacter cloacae

<400> 10990

Asp Phe Gly	Glu Lys Lys Met	Arg Tyr Thr	Arg Thr Ser Thr	Ala Thr
1	5	10		15
Asp Val Thr	Asp Thr Leu Arg	Gln Tyr Gln	Ala Asp Leu	Leu Thr Gly
	20	25		30
Pro Cys Trp	Met Ser Val Trp	Pro Leu Ile	Glu Arg Leu	Leu Ser Arg
	35	40		45
Glu Asn Glu	Met Gln Ser Val	Trp Gln Asn	Ile Ala Arg	Gln Ala Leu
	50	55		60
Thr Trp Gln	Gln Cys Tyr Cys	Leu Leu Glu	Gln Ile Ile	Leu Ala Gly
	65	70		75
Arg Phe Ser	Arg Pro Asp Ile	Val Ser Arg	Leu Lys Glu	Asp Tyr Arg
	85	90		95
Gln Leu Glu	Glu Leu Asn Arg	Thr Ile Ser	Lys Glu Ala	Gly Glu Leu
	100	105		110
Ala Gln Lys	Ile Leu Val Arg	Asp Ala Ile	Leu Asn Arg	Asn Ala Phe
	115	120		125
Thr Leu Glu	Arg Thr Thr His	Ile Val Glu	Leu Met Glu	Met Ala Glu
	130	135		140
Asp Asn Asp	Gly Leu Tyr Arg	Tyr Tyr Leu	His Glu Thr	Leu Asp Gly
	145	150		155
Leu Thr Cys	Arg Tyr Asp Gly	Lys Tyr Trp	Pro Gly Leu	Pro Gly Val
	165	170		175
Leu Gln Val	Ile Ala Arg Glu	His Pro Glu	Ile Gly Cys	Leu Ser Glu
	180	185		190
Ser Asp Arg	Ala Ile Ile Asn	Gly Arg Gly	Lys Met Leu	Pro Asp Tyr
	195	200		205
Leu Arg Glu	Leu Phe Ser Ser	Ile Glu Asn	Val Arg Gln	Gly Pro Trp
	210	215		220
Gly Leu Pro	Lys Glu Phe Thr	Leu Thr Asp	Ser Ser Leu	Ala Thr Leu
	225	230		235
Ala Thr Val	Thr Leu Asp His	Thr Glu Val	Phe Ser Ala	Asp Thr Val
	245	250		255
Lys Val Arg	Arg Ser Glu Phe	Ser Lys Arg	Gly Glu Arg	Gly Ala Trp
	260	265		270
Pro Phe Lys	Pro Leu Lys Ala	Val Asp Met		
	275	280		

<210> 10991
 <211> 580
 <212> PRT
 <213> Enterobacter cloacae

<400> 10991

Val Asp His	Phe Leu Pro	Val Val Asp	Ser Asn Pro	Leu Ser Thr	Ile
1	5	10		15	
Arg Glu Leu	Leu Phe Leu Tyr	Glu Met Glu	Asp Arg Phe	Ser Ala Asp	
	20	25		30	
Lys Lys Arg	Leu Arg Val Ala	Thr Glu Leu	Leu Glu Leu	Glu Thr	
	35	40		45	

Asp 50	Gln	Val	Leu	Arg	Arg	Glu 55	Ala	Phe	Glu	Asp	Ile 60	Pro	Ala	Gln	Leu
Val 65	Thr	Leu	Leu	Asp	Arg	Asp	Leu	Leu	Val	Asp	Pro	Thr	Arg	Ser	Pro 80
Val	Glu	Lys	Arg	Pro 85	Arg	Leu	Ile	Cys	Ser 90	Leu	Cys	Val	Gln	Leu 95	Ala
Asp	Ile	Thr	Glu 100	Ala	Ser	Tyr	Ile	Thr 105	Glu	Ala	Leu	Glu	Met 110	Leu	Glu
Gln	Glu	Leu 115	Phe	Ala	Trp	Pro	Pro 120	Leu	Asp	Glu	His	His 125	Ala	Arg	Asp
Ile	Tyr 130	Ser	Leu	Thr	Asn	Gly 135	Val	Met	Ser	Val	Leu 140	Leu	Thr	Arg	Gly
Met 145	Thr	Leu	Thr	Glu	Cys 150	Tyr	Leu	Leu	Tyr	Ile 155	Asn	Ile	Phe	Arg	Asn 160
Val	Ser	Thr	Glu	Pro 165	Asn	Ala	Phe	Arg	Ala 170	Ala	Phe	His	Ser	Phe 175	Arg
Gln	Lys	Leu	Val 180	Thr	Pro	Thr	Arg	Asp 185	Val	Thr	Val	Arg	Met 190	Phe	Ile
Thr	Ser	Glu 195	Lys	Leu	His	Thr	Leu 200	Leu	Asn	Thr	Gln 205	Gly	Pro	Thr	Leu
Gln	Phe 210	Asn	Gly	Cys	Val	Phe 215	Met	Pro	Leu	Asp	Glu 220	Ala	Arg	Gln	Arg
Phe 225	Ser	Leu	Ser	Val	Asp 230	Ile	Pro	Val	Cys	Ser 235	Met	Ser	Asp	Thr	Ser 240
Ala	Arg	Asn	Met	Ala 245	Gly	Gln	Met	Leu	Arg 250	Glu	Ser	Leu	Asp	Val 255	Ile
Ala	Tyr	Met	Val 260	Gly	Lys	Gly	Asp	Ile 265	Thr	Val	Gln	Lys	Gln 270	Phe	Met
Ile	Ile 275	Arg	Asp	Glu	Asp	Glu	Thr 280	Glu	Val	Pro	Arg	Phe 285	Asp	Asn	Glu
Ile	Glu 290	Ala	Asn	Ala	Asp	Arg 295	Leu	Thr	Asp	Glu 300	Glu	Phe	Ala	Arg	Phe
Met 305	Val	Ala	Met	Asn 310	Arg	Leu	Phe	Thr	Asp	Thr 315	Pro	Asp	Val	Ser	Arg 320
Lys	Lys	Ile	Ser	Ser 325	Ala	Phe	Arg	Phe	Phe 330	Arg	Asn	Gly	Ile	Glu 335	Ser
Gln	Val	Gln	Glu 340	Ser	Arg	Phe	Thr	Ala 345	Tyr	Trp	Ser	Ala	Leu 350	Glu	Ser
Leu	Thr	Leu 355	Gly	Val	Ala	Pro	Gly 360	Thr	Pro	Ser	His 365	Glu	Gln	His	Val
Ile	Gly 370	Val	Val	Ala	Pro	Cys 375	Met	Val	Leu	Asp	Tyr 380	Val	Val	Lys	Gln
Leu 385	Phe	Ser	Leu	Arg	Lys 390	Val	Leu	Arg	Phe	Ile 395	Leu	Arg	Glu	Pro	Gly 400
His	Pro	Leu	Arg	Thr 405	Pro	Glu	Ile	Ala	Ser 410	Leu	Pro	Leu	Gly	Gln 415	Leu
Tyr	Ala	Leu	Leu 420	Lys	Asp	Ala	Asp	Arg 425	Val	Arg	Glu	Leu	Gln 430	Thr	Asp
Leu	Gln	His 435	Phe	Pro	Tyr	Val	Met 440	Tyr	Arg	Val	Arg 445	Lys	Leu	Ala	Gly
Ile	Cys 450	Ala	Ser	Pro	Glu	Lys 455	Met	Ala	Asp	Lys	Leu 460	Gly	Gln	His	Ala
Glu 465	Lys	Val	Thr	Arg	His 470	Leu	His	Arg	Leu	Tyr 475	Leu	Leu	Arg	Asn	Thr 480
Ile	Val	His	Asn 485	Ala	Gly	Thr	Ser	Pro	His 490	Ile	Asp	Leu	Leu	Thr 495	Val
Asn	Leu	Glu	His 500	Tyr	Leu	Arg	Ala	Thr 505	Ile	Ser	Ala	Leu	Phe 510	Asn	Ile
Val	Val	Ile 515	His	Pro	Thr	Val	Ser 520	Thr	Ala	Glu	Glu 525	Ala	Phe	Thr	Arg
Cys	Gln	Phe	Thr	Ser	Glu	Ser	Val	Phe	Arg	Glu	Leu	Asn	Pro	Leu	His

530		535		540
Gly Ile Thr Glu Lys	Lys Val Tyr Thr Ala Ile Asp Asn Gln Leu Lys			
545	550	555		560
Asn Gly Thr Leu Ser	Arg Ser Asp Ala Arg Leu Ile Ala Trp Leu Asn			
	565	570		575
Ala His His				
	580			

<210> 10992
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 10992	
Ala Gln Gln Asp Leu Leu Asn Ile Leu Arg Thr Ile Phe Phe Phe Phe	
1	5 10 15
Ile Pro Asp Trp Glu Phe Ser Met Tyr Pro Asn Glu Ser Ala Ile Trp	
	20 25 30
Ile Ile Tyr Pro Gln Lys Asn Met Ser Tyr Lys Val Arg Gly Phe Ile	
	35 40 45
Asp Phe Ile Asp Phe Ile Asp Phe Ile Asp Phe Ile Asp Glu Ile	
	50 55 60
Gly Thr Thr Pro Tyr Trp Lys His Gly Lys	
65	70 75

<210> 10993
 <211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 10993	
Thr Leu Leu Met Pro Leu Lys His Gln Arg His Ser Leu Phe Asn His	
1	5 10 15
Arg Arg Arg Arg Arg Gln Ser Ala Tyr Cys Cys Ile Asn Pro Phe Cys	
	20 25 30
His Tyr Ser Phe Leu Thr Asn Gly Ser Ala His Arg Leu Thr Pro Phe	
	35 40 45
Asn Val Thr Ser Val Arg Ser Lys Val Asp Leu Arg Ile Thr Gly Leu	
	50 55 60
Asn Tyr Val Lys Glu Thr Phe Trp Cys Pro Pro Asn Pro Asp Arg Arg	
65	70 75 80
Gln	

<210> 10994
 <211> 173
 <212> PRT
 <213> Enterobacter cloacae

<400> 10994	
Glu Thr Cys Cys Thr Arg Ala Gln Gln Lys His Gln Ile Leu Ser Ser	
1	5 10 15
Val Lys His His Cys Tyr Ala Gly Gly Lys Glu Asn Leu Met Lys Leu	
	20 25 30
Phe Thr Ile Gly Phe Thr Gln Ser Ala Glu Asp Phe Thr Arg	
	35 40 45
Leu Lys Glu Ser Gly Ala Arg Arg Ile Leu Asp Val Arg Leu Asn Asn	
	50 55 60
Arg Ser Gln Leu Ala Gly Phe Ala Lys Gln Asp Asp Leu Lys Phe Phe	
65	70 75 80
Ala Arg Thr Leu Cys Asp Ile Asp Tyr Ala His Met Pro Asp Leu Ala	

				85					90					95			
Pro	Thr	Arg	Glu	Met	Phe	Glu	Arg	Tyr	Lys	Leu	Gln	Lys	Gly	Asp	Trp		
			100					105					110				
Asp	Ile	Tyr	Ser	Ser	Asp	Phe	Ile	Asp	Leu	Ile	Thr	Lys	Arg	His	Ile		
		115					120					125					
Glu	Thr	Leu	Glu	Lys	Ser	Gln	Phe	Ala	Asp	Ala	Cys	Leu	Leu	Cys	Ser		
	130					135					140						
Glu	His	Lys	Pro	His	His	Cys	His	Arg	Arg	Leu	Val	Ala	Glu	Tyr	Leu		
145					150					155					160		
Ala	Asp	Lys	Trp	Pro	Asp	Val	Thr	Ile	Met	His	Leu						
				165					170								

<210> 10995

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10995

Arg	Val	Leu	Cys	Ala	Val	Leu	Thr	Trp	Asp	Cys	Ala	Ala	Val	Asp	Ala		
1				5					10					15			
Thr	Thr	Glu	Ile	Lys	Leu	Val	Leu	Arg	Leu	Ala	Gly	Thr	Pro	Ile	Asp		
		20						25					30				
Ile	Ala	Ile	Ala	Gly	His	Ala	Ile	Val	Ala	Gly	Ala	Val	Leu	Val	Thr		
		35				40						45					
Asn	Asn	Ala	Leu	Glu	Phe	Glu	Arg	Ile	Ser	Thr	Leu	Val	Pro	Glu	Asp		
	50					55					60						
Trp	Val	Asn															
65																	

<210> 10996

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10996

Ile	Met	Phe	Asn	Val	Ala	Arg	Asn	Phe	Pro	Thr	Asp	Arg	Ile	Asn	Pro		
1				5					10					15			
Phe	Cys	Gly	Phe	Tyr	Asn	Ile	Ile	Lys	Lys	Phe	Asp	Pro	Asp	Gly	Leu		
		20						25					30				
Met	Phe	Gly	Ile	Gly	Arg	Glu	Tyr	Ile	Asn	Asn	Val	Thr	Ala	Asn	Pro		
		35				40						45					
Glu	His	Arg	Pro	Ser	Gln	Ser	Phe	Val	Cys	Thr	Gly	Ile	Leu	Gln	Thr		
	50					55					60						
Cys	Gln	Leu	Met	Asn													
65						70											

<210> 10997

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 10997

Arg	Thr	Phe	Lys	Leu	Asn	Arg	Met	Thr	Gly	Leu	Ala	Val	Leu	Cys	Leu		
1				5					10					15			
Ser	Leu	Met	Gly	Cys	Ser	Ala	Val	Pro	Ser	Glu	Asn	Ser	Ala	Gln	Tyr		
		20						25					30				
Leu	Arg	Thr	Glu	Met	Gln	Ser	Pro	Val	Ser	Gly	Ala	Thr	Ile	Ile	Thr		
		35				40						45					
Val	Thr	Ala	Asp	Ser	Leu	Met	Lys	Gln	Asp	Asn	Thr	His	Asn	Ala	Ile		
	50					55					60						
Leu	Tyr	Ala	Leu	Arg	Pro	Met	Pro	Gly	Lys	Ala	Phe	Thr	Ser	Glu	Leu		

65					70					75				80
Asp	Arg	Lys	Phe	Ala	Ala	Thr	Met	Tyr	Ile	Asp	Leu	Ser	Pro	Gly
				85				90					95	
Glu	Lys	Ser	Arg	Thr	Ala	Glu	Ile	Ser	Gly	Glu	Ile	Asn	Tyr	Asp
			100					105				110		
His	Glu	Arg	Tyr	Val	Asn	Ala	Arg	Leu	Val	Gly	Asp	Ser	Ile	Arg
		115					120				125			Thr
Ile	Pro	Ile	Ala	Pro	Lys	Thr	Ile	Pro	Leu	Thr	Leu	Asn	Lys	Pro
		130				135					140			Phe
Ser	Ile	Asn	Leu	Pro	Gln	Gly	Ile	His	Tyr	Ser	Val	Met	Leu	Thr
145					150					155				160
Ser	Gln	Pro												

<210> 10998

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 10998

Arg	Lys	Gln	Ser	Met	Ser	Asn	Pro	Val	Ile	Ser	Gly	Asn	Gly	Ile	Phe
1				5					10					15	
Ser	His	Val	Phe	Ile	Gly	Ala	Val	Asp	Val	Gln	Lys	Ser	Ala	Glu	Phe
			20					25					30		
Tyr	Asp	Ala	Thr	Leu	Gly	Ala	Leu	Gly	Ile	Asn	Asn	Leu	Gly	Pro	Phe
		35					40					45			
Gly	Asn	Gly	Trp	Val	Leu	Phe	Gly	Arg	Asp	Lys	Pro	Ala	Phe	Ile	Ile
		50				55					60				
Ala	Arg	Pro	Gly	Asn	Gly	Glu	Ala	Pro	Ser	Ser	Asn	Gly	Val	Thr	Ile
65					70					75					80
Gly	Phe	Ala	Ala	Ala	Thr	Pro	Ala	Glu	Val	Asp	Ala	Phe	His	Ala	Ala
				85					90					95	
Gly	Leu	Ala	Ala	Gly	Gly	Thr	Asp	Glu	Gly	Gln	Pro	Gly	Pro	Arg	Gly
		100						105					110		
His	Leu	Pro	Gly	Ala	Tyr	Ala	Ala	Tyr	Leu	Arg	Asp	Pro	Ala	Gly	Asn
		115					120					125			
Lys	Ile	Cys	Ser	Tyr	Thr	Phe	Ile								
		130					135								

<210> 10999

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10999

Thr	Leu	Thr	Thr	Ala	Gly	Arg	Thr	Phe	Ser	Ser	Ile	Gly	Ala	Arg	Leu
1				5					10					15	
Gly	Met	Ala	Ser	Cys	Pro	Gly	Thr	Cys	Glu	Gly	Ser	Ala	Ala	Leu	Ala
			20					25					30		
Gly	Lys	Asp	Ala	Glu	Arg	Asp	Asn	Pro	Thr	Leu	Asn	Ala	Lys	Ala	Leu
		35					40					45			
Asn	Ser	Trp	Phe	Phe	Phe	Phe	Ile	Asp	Ala	Asp	Ser	Arg	Ile	Leu	Glu
		50					55				60				

65

<210> 11000

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 11000

Cys Tyr Glu Arg Glu Arg Phe Tyr Gln Ile Ser Leu Ser Glu Asn Met
 1 5 10 15
 Pro Gly Gln Arg Arg Ala Asn Asn Leu Lys Ser Lys Leu Asn Val Ile
 20 25 30
 Lys Met Met Leu Phe Trp Trp Arg Gly Arg Val Tyr Cys Asn Pro Leu
 35 40 45
 Leu Ile Arg Cys Cys Leu Gln Pro Asp Ser Ile Gln Val Lys Val Lys
 50 55 60
 Asp Val Arg Pro Gln Ile Leu
 65 70

<210> 11001

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11001

Val Val Pro Pro Tyr Ala His Val Lys Arg Ile Lys Ile Gln Pro Ala
 1 5 10 15
 Ala Ser Leu Phe Pro Gln Gln Val Leu Met Arg Cys Leu Met Gln Leu
 20 25 30
 Pro Leu Ala Ile Thr Ala Gln Gly Glu Met Glu Leu Ser Leu Gln Leu
 35 40 45
 Met Gly Ala Lys Arg Gln Leu Ala Gly Val Ala Ala Gln Thr Val Leu
 50 55 60
 Arg Arg Glu Asp Ile Arg Arg Leu His Leu Phe Gln Arg
 65 70 75

<210> 11002

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11002

Thr Ser Glu Glu Glu Lys Met Lys Gln Gln Leu Ser Thr Ala Ser Asp
 1 5 10 15
 Tyr Asn Glu Ala Cys Asn Leu Leu Arg Ser Gly Tyr Val Lys His Val
 20 25 30
 Arg Leu Gly Trp Asn Val Gly Ser Asp Glu Phe Phe Arg Ile Ala Ser
 35 40 45
 Asp Trp Cys Asp Thr Gly Ala Lys Ile Lys Lys Glu Gly Asp Asn Phe
 50 55 60
 Ile Ile Ser Leu Lys Gly Phe Pro Ile Pro Pro Gln His
 65 70 75

<210> 11003

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 11003

Ile Lys His Val Phe Arg Lys Asp Val Thr Ile Met Val Thr Ala Val
 1 5 10 15
 Leu Asn Val Lys Ile Asp Glu Ala Leu Lys Glu Arg Leu Arg His Tyr
 20 25 30
 Ala Glu Asp Asn Asn Glu Asn Leu Ser Val Thr Thr Glu Lys Leu Leu
 35 40 45
 Leu Leu Ala Phe Glu Ala Val Glu Glu Ala Gly Val Ser Glu Glu Asp
 50 55 60
 Val Asp Asn Gln His Thr Glu Glu Glu Ser Val Thr Pro Phe Thr Pro

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<210> 11004
<211> 72
<212> PRT
<213> Enterobacter cloacae
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<210> 11005
<211> 87
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 11006
<211> 81
<212> PRT
<213> Enterobacter cloacae
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<210> 11007
<211> 61
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<212> PRT

<213> Enterobacter cloacae

<400> 11007

Gly	Asn	Gln	Asn	Glu	Arg	Phe	Val	Phe	Gly	Phe	Gly	Thr	Ala	Arg	Ser
1			5					10						15	
Arg	Phe	Ile	Val	Thr	Gly	Lys	Val	Tyr	Glu	Gly	Val	Thr	Gly	Ser	Leu
		20					25					30			
Thr	Val	Gln	Glu	His	Asn	Ile	Asp	Gly	Arg	Gly	Glu	Arg	Gly	Leu	Gly
		35				40					45				
His	Lys	Pro	Lys	Val	Val	Glu	Asp	Thr	Ser	Arg	Asn				
	50					55					60				

<210> 11008

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11008

Ser	Thr	Leu	Leu	His	Pro	Glu	Ala	Phe	Leu	Arg	Arg	His	Pro	Asp	Val
1			5					10						15	
Ser	Leu	Val	Arg	Asn	Ala	Ile	Ile	Leu	Met	Phe	Val	Ser	Arg	Val	Gly
		20					25					30			
Ile	Leu	Ser	Thr	Gln	Ile	Glu	Ser	Ala	Ile	Leu	Leu	Arg	Leu	Thr	Thr
		35				40					45				
His	Leu	Val	Ser	Asn	Val	Ser	Gln	Ala	Lys	Arg	Gly	Ile	Ser	Phe	Gln
	50					55				60					
Lys	Thr	Thr	Asn	Leu	Leu	Lys	Glu	Lys	Leu	Ile	Leu	Ile			
65					70					75					

<210> 11009

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11009

Cys	Pro	Glu	Ala	Asp	Ser	Pro	Arg	Asn	Val	Asn	Pro	Ser	Thr	His	Phe
1			5					10						15	
Thr	Arg	Ala	Cys	Ile	Phe	Thr	His	Ser	Asn	Val	Ala	Phe	Phe	Met	Thr
		20					25					30			
Asp	Tyr	Val	Tyr	Val	Thr	Phe	Leu	Ala	Thr	Glu	Gly	Asp	Leu	Arg	His
		35				40					45				
Ala	Glu	Ala	Arg	His	Gln	Glu	Thr	Arg	Gly	Glu	Ser	Tyr	Ala	Lys	Thr
	50					55					60				
Leu	Trp	Met	Leu	Gln											
65					70										

<210> 11010

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 11010

Gln	Ile	Thr	Cys	Thr	Leu	His	Phe	Ser	Gln	Arg	Lys	Ala	Thr	Cys	Val
1			5					10						15	
Met	Leu	Lys	Arg	Asp	Thr	Arg	Arg	His	Ala	Ala	Lys	Ala	Met	Leu	Lys
		20					25					30			
His	Ser	Gly	Cys	Tyr	Ser	Asn	Thr	Leu	Thr	Leu	His	Met	Tyr	Ala	Glu
		35				40					45				
Asp	Ile	Lys	Leu	Tyr	Trp	Leu	Arg	Asn	Val	Thr	Thr	Ala	Asp	Phe	Pro
	50					55					60				

Gly Met Gly Lys Asn Ser Ile Ala Thr Pro Glu Ser Gly Cys Ile Leu
 65 70 75 80

<210> 11011

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 11011

Arg Lys Met Ala Val Arg Lys Arg Phe Ile Ala Gly Ala Lys Cys Pro
 1 5 10 15
 Ser Cys Gln Ala Gln Asp Thr Leu Ala Met Trp Arg Glu Asn Asn Ile
 20 25 30
 Asp Ile Val Glu Cys Val Lys Cys Gly His Gln Met Arg Glu Ala Asp
 35 40 45
 Lys Glu Ala Arg Asp His Val Arg Lys Glu Glu Gln Val Ile Gly Ile
 50 55 60
 Phe His Pro Asp
 65

<210> 11012

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 11012

Ile Phe Phe Gln Asp Arg Ile Ile Phe Leu Ala Thr Glu Ile Leu Phe
 1 5 10 15
 Ser Ile Ser Ala Ile Leu Ala Ile Lys Lys Lys Asn Leu Thr Val Asn
 20 25 30
 Phe Pro Glu Leu Arg Pro Ile Thr Pro Leu Phe Val Leu Arg Val Val
 35 40 45
 Thr Leu Arg Asn Lys Tyr Gly Lys Tyr Phe Tyr Val Gly Ser Arg Ile
 50 55 60
 Arg Phe Ala Val Arg Arg His Ser Gly Gln Ser Asp Arg Cys Thr Lys
 65 70 75 80
 Ser Thr Ala Asp Ala Asp Leu
 85

<210> 11013

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 11013

Met Lys Gln Ser Ser Leu Ile Asn Thr Thr Pro Gly Leu Trp Ala Ser
 1 5 10 15
 Gln Ala Ala Ala Ser Ser Ser Thr Val Cys Ala Ser Leu Met Ser Leu
 20 25 30
 Phe Leu Thr Pro Leu Leu Ala Lys Tyr Pro Val Asn Pro Ser Arg Val
 35 40 45
 Tyr Leu His Lys Ser Ile Met Ile Val Asp Met Ala Tyr Pro His Ser
 50 55 60
 Met Arg Asn Asp Asn Ser Pro Pro Ala
 65 70

<210> 11014

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 11014

Gly Lys Trp Ser Met Lys Thr Leu Ile Ser Leu Thr Ala Leu Leu Gly
 1 5 10 15
 Leu Ala Ser Ala Ser Ala Phe Ala Ala Thr Ala Pro Glu Cys Val Lys
 20 25 30
 Ala Asp Asn Gln Gln Ile Glu Ala Leu Phe Asp Lys Trp Asn Ala Ser
 35 40 45
 Leu Gln Thr Gly Asp Ala His Lys Val Ala Asp Asn Tyr Leu Ser Asp
 50 55 60
 Ala Val Leu Leu Pro Thr Ile Ser Asn Gln Val Arg Leu Thr Asp Lys
 65 70 75 80
 Glu Arg Val Asp Tyr Phe Glu Asp Phe Leu Lys Lys Lys Pro Phe Gly
 85 90 95
 Lys Ile Asp Ser Arg Thr Ile Arg Leu Gly Cys Asn Lys Ala Ile Asp
 100 105 110
 Thr Gly Thr Tyr Thr Phe Thr Phe Ala Asp Lys Thr Ser Val Thr Ala
 115 120 125
 Arg Tyr Thr Phe Thr Tyr Ala Trp Asp Gly Lys Ala Trp Lys Ile Ser
 130 135 140
 Ser His His Ser Ser Ala Met Pro Glu Gly
 145 150 155

<210> 11015

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 11015

Asn Val Gly Leu Gly Thr Ser Ala Ile Leu Asn Ala Arg Ser Asn Glu
 1 5 10 15
 Thr Tyr Pro Ala Asp Gly Val Leu Thr Val Gly Gln Phe Gly Ile Gly
 20 25 30
 Ala Asp Trp Leu Pro Leu Thr Thr Asp Phe Lys Thr Ile Glu Lys Gly
 35 40 45
 Gly Ile Tyr Ala Gly Gly Gly Ala Thr Gly Val Asn Phe Phe Asn Pro
 50 55 60
 Tyr Ala Pro Val Leu Val Met Cys Arg Tyr Ala Thr Ser Ala Met Gln
 65 70 75 80
 Ala Leu Gln Ala Asp Asn Thr Thr Leu Ala Phe Asn Val Lys Asp Ala
 85 90 95
 Asn Gly Trp Arg Gly Trp Val Lys Leu Tyr Ser Glu Tyr Asn Thr Ile
 100 105 110
 Arg Ala Ser Asp Gly Thr Leu Lys Ala Ala Ser Pro Val Ile Lys Val
 115 120 125
 Phe Ser Asp Gly Thr Tyr Gln Thr Asn Asp Glu Ser Glu Gly Cys Thr
 130 135 140
 Val Thr Arg Leu Ala Thr Gly Gln Tyr Leu Val Glu Gly Cys Gln Gly
 145 150 155 160
 Leu Asn Ser Asp Ala Ala Trp Gly Gly Ile Asp Gly Gly Phe Asp Ile
 165 170 175
 Pro Thr Asp Arg Asn Lys Gln Pro Leu Ile Trp Leu Asp Tyr Glu Val
 180 185 190
 Asn Ala Val Gly Ser Val Leu Val Lys Thr Tyr His Arg Thr His Pro
 195 200 205
 Asp Ala Pro Ala Phe Ala Arg Asn Glu Leu Glu Gly Val Gly Asp Gly
 210 215 220
 Asp Pro Val Asp Ile Pro Arg Asp Gln Phe Val Ser Val Arg Val Glu
 225 230 235 240
 Met Pro Ala Asp Ser Leu Tyr Asn Gln Lys Ile Arg Ala Ala Glu Leu

Ala Met Thr Ala Asp Ala Gly Glu
 245 250 255
 260 265

<210> 11016
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 11016
 Cys Leu Glu Asn Ser Ser Ser Phe Ala Ala Pro Tyr Tyr Trp Asp Asp
 1 5 10 15
 Ser Gln Leu Ile Thr Arg Ala Gln Lys Leu Lys Leu Phe Val Ser Asp
 20 25 30
 Ile Ala Thr Ile Pro Glu Asn Asn Lys Ile Gln Pro Leu Arg Pro Ser
 35 40 45
 Phe Ser Gln Ile Ser Ile Lys Ala Ile Asn Gly Val Arg
 50 55 60

<210> 11017
 <211> 113
 <212> PRT
 <213> Enterobacter cloacae

<400> 11017
 Pro Asp Gln Gln Arg Gly Arg Ser Ala Gly Lys Val Ser Thr Pro Gly
 1 5 10 15
 Val Lys Phe Leu Met Ser Leu Ala Leu Arg Met Gly Arg Thr Leu Ser
 20 25 30
 Glu Leu Arg His Asn Met Thr Ala Ser Glu Leu Leu Met Trp Ile Glu
 35 40 45
 Tyr Asn Arg Gln Ser Pro Val Gly Asp Ile Arg Gly Asp Ile Gln Ala
 50 55 60
 Ala Gln Ile Val Ser Ala Ile Tyr Gly Ser Gln Gly Ala Lys Val Pro
 65 70 75 80
 Leu Asp Asp Ala Ile Leu Arg Trp Gly Gly Glu Glu Gln Ser Glu Pro
 85 90 95
 Asn Asp Pro Phe Ala Gly Leu Glu Ala Ala Leu Thr Ala Ala Thr Gln
 100 105 110

<210> 11018
 <211> 117
 <212> PRT
 <213> Enterobacter cloacae

<400> 11018
 Cys Trp Gly Thr Lys Met Glu Ile Leu Leu Val Ser Ile Val Ile Gly
 1 5 10 15
 Leu Ile Pro Ala Leu Ile Ala Gln Ser Lys Gly Arg Ser Phe Phe Ala
 20 25 30
 Trp Trp Val Tyr Gly Ala Leu Leu Phe Ile Ile Ala Phe Val His Ser
 35 40 45
 Leu Val Ile Lys Lys Asp Val Ala Ala Glu Glu Lys Asp Leu Ile Glu
 50 55 60
 Asn Asp Gly Met Lys Lys Cys Pro Phe Cys Ala Glu Leu Ile Lys Ser
 65 70 75 80
 Glu Ala Ile Lys Cys Lys His Cys Gly Ser Asp Leu Ala Val Asp Ser
 85 90 95
 Pro Pro Val Lys Thr Asp Glu Glu Tyr Leu Glu Glu Ala Arg Gln Lys

Val Trp Lys Gln 100 105 110
115

<210> 11019
<211> 74
<212> PRT
<213> Enterobacter cloacae

<400> 11019
Gly Gly Lys Ser Tyr Cys Gly Ser Cys Cys Leu Thr Val Val Lys Arg
1 5 10 15
Val Leu Phe Ile Asp Val Leu Cys Asp Thr Asp Lys Gln Pro Val Phe
20 25 30
Ser Val Asp Glu Glu Glu Gln Val Arg Glu Ile Tyr Gly Pro Val His
35 40 45
Ser Arg Leu Leu Lys Gln Ala Leu Asp Leu Ile Asn Asn Ala Asp Glu
50 55 60
Ala Arg Glu Lys Ser Gln Pro Pro Ala
65 70

<210> 11020
<211> 149
<212> PRT
<213> Enterobacter cloacae

<400> 11020
Gln Glu Asp Leu Leu Lys Gly Met Met Arg Asp Val Trp Gly Leu Thr
1 5 10 15
Val Val Glu Phe Ile Ala Ile Lys Arg Asn Leu Glu Asn Ile Ser Asp
20 25 30
Thr Trp Ser Asp Leu Trp Ala Met Leu Tyr Leu Ser Gln Ala Lys Pro
35 40 45
Gly Gln Leu Leu Gly Ala Lys Phe Asp Asp Val Ser His Asp Ile Leu
50 55 60
Val Leu Ser Ala Thr Lys Gly Leu Arg Glu Arg Cys Ile Ala Leu Lys
65 70 75 80
Pro Gly Val Lys Arg Ile Leu His Ser Arg Arg Glu Lys Tyr Pro Glu
85 90 95
Asp Val Phe Leu Phe Gln Ser His Ser His Arg Thr Lys Thr Thr Pro
100 105 110
Arg Pro Val Thr Leu Val Ala Phe Asn Ala Ala Leu Lys Arg Ala Ser
115 120 125
Ile Gly Val Thr Ala Lys Thr Val Ser Ser Lys Ser Ala Tyr Tyr Leu
130 135 140
Thr Pro Leu Arg
145

<210> 11021
<211> 131
<212> PRT
<213> Enterobacter cloacae

<400> 11021
Gly Phe Arg Ser Gly Glu Ser Arg Glu His Gly Asn Gly Arg Pro Leu
1 5 10 15
Thr Glu Pro Leu Phe Phe Gln Glu Asp Trp Met Ala Glu Tyr Gly Val
20 25 30
Gln Thr Trp Asp Ala Ser Gly Lys Val Asn Asn Tyr Gly Val Lys Pro
35 40 45
Val Ser Val Cys Gly Tyr Leu Gln Leu Ala Gln Asn Gln Lys Thr Gly

50		55		60											
Ser	Tyr	Thr	Val	Ala	Leu	Pro	Pro	Gly	Cys	Arg	Leu	Thr	Tyr	Phe	Gln
65					70					75					80
Ser	Met	Asn	Gly	Asp	Gln	Phe	Gly	Thr	Ser	Arg	Arg	Lys	Ile	Thr	Ile
				85					90					95	
Ser	Gly	Gly	Thr	Ala	Thr	Val	Ser	Ala	Ala	Gly	Asp	Thr	Asp	Tyr	Ser
			100					105					110		
Ala	Gly	Thr	Glu	Pro	Ala	Ala	Ala	Ala	Tyr	Leu	Ile	Phe	Gln	Ile	Glu
		115					120					125			
Arg	Ala														
130															

<210> 11022

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 11022

Met	Ala	Glu	Tyr	Gly	Val	Leu	Leu	Thr	Thr	Thr	Ser	Gly	Glu	Val	Trp
1				5					10					15	
Val	Thr	Ala	Asn	Ser	Ser	Pro	Ile	Ala	Leu	Gln	Ala	Arg	Lys	Thr	Ala
			20					25					30		
Ala	Leu	Gln	Gly	Thr	Ser	Gly	Phe	Asn	Thr	Lys	Val	Thr	His	Thr	Phe
		35					40					45			
Pro	Ala	Gly	Gln	Pro	Val	Val	Ala	Phe	Val	His	Cys	Thr	Val	Glu	Val
	50					55				60					
Glu	Ile	Thr	Gln	Thr	Ile	Ser	Gly	Asn	Thr	Ile	Thr	Ile	Asp	Phe	Leu
65				70					75						80
Arg	Pro	Asn	Ala	Thr	Gly	Thr	Ala	Tyr	Val	Tyr	Phe	Phe	Ser	Ile	Phe
				85					90					95	
Pro	Gln	Thr	Lys	Pro	Asp	Tyr	Gly	Leu	Ala	Val	Trp	Asp	Ala	Ser	Gly
			100				105						110		
Thr	Leu	Ile	Leu	Thr	Asn	Glu	Thr	Arg	Thr	Leu	Ser	Asp	Val	Val	Thr
	115						120					125			
Leu	Gly	Thr	Ala	Gly	Val	Asp	Ala	Ser	Ser	Gly	Tyr	Asn	Ile	Asn	Thr
	130					135					140				
Thr	Leu	Ala	Gly	Lys	Trp	Ala	Cys	Met	Pro	Ala	Met	Leu	Gly	Leu	Ile
145				150					155						160
Thr	Gly	Val	Val	Ser	Ala	Gly	Gly	Gln	Pro	Gln	Pro	Tyr	Ser	Ala	Ile
				165					170					175	
Tyr	Lys	Ser	Met	Ala	Lys	Leu	Glu	Gly	Ser	Asn	Thr	Arg	Ile	Phe	Ala
		180						185					190		
Arg	Pro	Gln	Thr	Thr	Pro	Gly	Gly	Asn	Leu	Gln	Asn	Val	Ala	Tyr	Ser
		195					200					205			
Asn	Leu	Arg	Asn	Val	Ile	Met	Ala	Ile	Asn	Cys	Ala	Asn	Tyr	Asp	
	210					215					220				

<210> 11023

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 11023

Ala	Pro	Thr	Arg	Ser	Pro	Ala	Pro	Pro	Ala	Thr	Asn	Pro	Phe	Asn	Phe
1				5					10					15	
Glu	Gln	Thr	Pro	Leu	Arg	Arg	Gly	Phe	Leu	Leu	Pro	Gly	Glu	Asn	Met
			20				25						30		
Leu	Tyr	Asn	Thr	Gly	Thr	Ile	Ala	Ile	Asn	Gly	Asn	Thr	Ala	Thr	Gly
		35					40					45			
Thr	Gly	Thr	Asn	Phe	Thr	Ala	Ala	Gly	Ser	Leu	Ile	Arg	Asn	Gly	Cys
	50					55					60				

Thr	Val	Ile	Ala	Met	Thr	Ser	Pro	Val	Gln	Val	Phe	Gln	Ile	Thr	Thr
65					70					75					80
Ile	Gly	Ser	Ala	Thr	Ser	Leu	Thr	Val	Thr	Pro	Ala	Ala	Asn	Pro	Ala
				85					90					95	
Val	Pro	Ala	Gly	Thr	Arg	Phe	Ala	Ile	Leu	Leu	Ser	Asp	Ser	Leu	Ser
			100					105					110		
Val	Asp	Gly	Leu	Ala	Gln	Asp	Ile	Ala	Glu	Thr	Phe	Thr	Met	Tyr	Gln
		115					120					125			
Arg	Tyr	Met	Ser	Gly	Phe	Ala	Asp	Val	Met	Asn	Gly	Thr	Ser	Asp	Val
	130					135					140				
Thr	Ile	Thr	Ile	Asn	Gly	Thr	Val	Val	Thr	Val	Pro	Gly	Gln	Lys	Ser
145					150					155					160
Leu	Ala	Lys	Lys	Gly	Ala	Asn	Ser	Asp	Ile	Thr	Ser	Leu	Ser	Gly	Leu
				165					170					175	
Lys	Thr	Ala	Leu	Ser	Ile	Gly	Gln	Gly	Gly	Thr	Gly	Ala	Thr	Asn	Ala
			180					185					190		
Ala	Asp	Ala	Arg	Thr	Asn	Leu	Gly	Leu	Asp	Lys	Thr	Val	Asn	Thr	Glu
		195					200					205			
Gly	Asn	Gln	Ser	Ile	Ser	Gly	Glu	Lys	Asn	Phe	Thr	Gly	Pro	Leu	Lys
	210					215					220				
Ile	Thr	Ala	Ala	Tyr	Pro	Gln	Ile	Thr	Leu	Trp	Ser	Thr	Ala	Gln	Pro
225					230					235					240
Asn	Gly	Thr	Tyr	Gly	Arg	Val	Val	Thr	Phe	Gly	Ser	Glu	Gly	Asn	Lys
				245					250					255	
Thr	Phe	Ile	Ala	Ala	Arg	Gln	Trp	Glu	Gly	Gly	Asn	Asn	Thr	Cys	Val
			260					265					270		
Thr	Tyr	Leu	Pro	Thr	Phe	Lys	Asp	Gly	Tyr	Phe	Thr	Phe	Trp	Thr	Thr
		275					280					285			
Ser	Asn	Thr	Thr	Val	Thr	Ser	Asp	Gly	Thr	Ile	Lys	Gln	Ala	Ser	Pro
	290					295					300				
Ile	Ala	Arg	Ile	Val	Lys	Ser	Gln	Glu	Glu	Asn	Arg	Arg	Thr	Asp	Val
305					310					315					320
Glu	Asn	Asp	Gly	Phe	Thr	Trp	Cys	Gly	Cys	Gly	Thr	Val	Asn	Ala	Glu
			325					330						335	
Ala	Glu	Gly	Val	Ser	Ile	Ser	Arg	Leu	Asp	Thr	Gly	Val	Tyr	Glu	Leu
			340					345					350		
Thr	Gly	Ser	Ala	Gly	Leu	Ala	Ser	Asp	Gly	Trp	Gln	Leu	Leu	Pro	Pro
		355					360					365			
Met	Asp	Pro	Gly	Gly	Met	Gly	Glu	Met	Gly	Val	Val	Glu	Ala	Glu	Gln
	370					375					380				
Thr	Glu	Ser	Gly	Gly	Leu	Ile	Ile	Arg	Leu	Tyr	Lys	Gln	Lys	Tyr	Met
385					390					395					400
Leu	Ser	Asp	Gly	Gly	Glu	Ile	Val	Lys	Thr	Lys	Gly	Glu	Pro	Met	Asp
				405					410					415	
Val	Pro	Val	Ser	Ser	Trp	Ile	Asp	Val	Arg	Leu	Asp	Met	Pro	Thr	Asp
			420				425						430		
Ser	Val	Phe	Lys	Arg	Ser	Gln	Gln	Arg	Leu	Gln	Ser	Asp	Glu	Glu	Ser
		435					440					445			

<210> 11024

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 11024

Lys	Ser	Arg	His	Asn	Ser	Asp	Asn	Lys	Gly	Trp	Val	Lys	Ile	Gln	Cys
1				5					10					15	
Lys	Ser	Arg	Val	Lys	Phe	Gly	Cys	Lys	Ser	Thr	Asp	Ile	Asp	Asn	Leu
			20					25						30	

Ser Arg Asn Gln Asp Ile Ala Val Gly Leu Gln Val Ile Leu Lys Pro
 35 40 45
 Arg Ala Arg Pro Thr Pro Thr Trp Thr Ser Met Pro Glu Arg Thr Leu
 50 55 60
 Asp Phe Glu Phe
 65

<210> 11025

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11025

Ala Thr Gln Val Arg Val Ala Val Glu Pro Gln Leu Gly Ala Pro Leu
 1 5 10 15
 Arg Ser Arg Gly Met Ala Ala Ser Leu Asp Gln Arg Gly Ala Asp Thr
 20 25 30
 Pro Ala Arg Met Cys Pro Ser His Arg Glu Leu Val Gln Ile Cys Gly
 35 40 45
 Leu Pro Leu Glu Gly Val Gly Pro Glu Leu Gly Ile Leu Gly Arg Gln
 50 55 60
 Gly Ala Thr Ala Asp Asp Ala Val Ala Ala Thr Arg Asp
 65 70 75

<210> 11026

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 11026

Leu Ala Asn Ala Val Ser Arg Trp Val Leu Arg Phe Asn His Leu Ala
 1 5 10 15
 Leu Gln Ile Leu Ala Asn Gly Val Pro Gly Gln Ala Ala Ser Ser Gly
 20 25 30
 Tyr Phe Pro Asn Arg Arg Thr Ile Ala Lys Met Pro Ala Ser Asn Cys
 35 40 45
 Ala Gln Tyr Arg His Val Tyr His Ser Leu Ile Ser Pro Ala Ile Ser
 50 55 60
 Arg Arg Glu Thr Val Ser Tyr Val Gly Gln Ile Ser Thr Gln Ile Phe
 65 70 75 80
 Thr Leu Ser Trp Gly Ala Asp Lys Ile Leu Asp Tyr Phe Arg Ser Ser
 85 90 95
 Ser Cys Ile Arg Met Lys Ile Ala Phe Glu Pro
 100 105

<210> 11027

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 11027

Asn Cys Ala Ala Gly Leu Ala Ser Arg Val Arg Val Ser Leu Gln Met
 1 5 10 15
 Pro Phe His Ser Glu Phe Leu Glu Lys Ile Lys Met Gln Pro His Asp
 20 25 30
 Thr Phe Thr Gly Ser Tyr Gln Pro Gly Asp Val Glu Phe Leu Leu Lys
 35 40 45
 Pro Val Val Ile Glu Met Thr Pro Val Glu Gln Lys Glu Glu Leu Ile
 50 55 60
 Gln Ser Gly Lys Lys His Tyr Ser Asp Met Leu Ser Gln Glu Pro Ala
 65 70 75 80

Pro Thr Gln Trp His Leu Asp Leu Phe His Arg Ala Leu Asp Arg Gly
 85 90 95
 Ala Glu Arg Leu Ala Lys Glu Val Thr Gln Leu Ala Ile Ala Leu Ala
 100 105 110
 Glu Arg Phe Gly Asp Glu Pro Ile Val Leu Ala Ser Leu Val Arg Ala
 115 120 125
 Gly Val Pro Leu Gly Val Met Leu His Gln Ala Leu Arg Asp Met Gly
 130 135 140
 Lys Thr Ser Trp His Tyr Gly Ile Ser Ile Ile Arg Asp Arg Gly Ile
 145 150 155 160
 Asp Gly Ala Ala Leu Asp Val Ile Glu Glu Arg His Gly Thr Ser Gly
 165 170 175
 Ile Val Phe Val Asp Gly Trp Thr Gly Lys Gly Ala Ile Thr Gly Glu
 180 185 190
 Leu Val Arg Ala Leu Lys Asp Arg Pro Gly Tyr Pro Glu Gln Pro Arg
 195 200 205
 Leu Val Val Leu Ala Asp Pro Cys Gly Cys Ser Trp Leu Ala Ala Ser
 210 215 220
 Asp Asp Asp Trp Leu Ile Pro Phe Gly Ile Met Gly Ala Pro Val Ser
 225 230 235 240
 Gly Leu Ile Ser Arg Ser Val Trp Ser Ser Glu Gly Leu His Gly Cys
 245 250 255
 Met Val Cys Glu His Leu Ser Glu Phe Glu Cys Ser Arg Met Leu Val
 260 265 270
 Asp Thr Val Ala His Phe Arg Lys Lys Leu Thr Pro Ser Ser Leu Ala
 275 280 285
 Thr Leu Ser Trp Asn Met Glu Ser Ala Arg Val Leu Trp Gln Thr Ser
 290 295 300
 Arg Asp Val Ile Ala Phe Leu Ala Asp Glu Phe Lys Val Asp Ser Val
 305 310 315 320
 Asn Arg Ile Lys Pro Gly Ile Ala Glu Ala Thr Arg Ala Val Leu Arg
 325 330 335
 Arg Val Pro Asp His Val Phe Val Arg Ser Ile Asp Asp Pro Asp Val
 340 345 350
 Ala Leu Leu Val Gly Leu Ala Arg Glu Lys Gly Ile Val Val Thr Glu
 355 360 365
 Met Gly Gly Thr Leu Gly Gln Tyr Arg Ala Val Thr Ile Ile Lys Lys
 370 375 380
 Val Leu
 385

<210> 11028

<211> 555

<212> PRT

<213> Enterobacter cloacae

<400> 11028

Leu Arg Arg Lys Gln Arg Glu Arg Leu Met Ser Gln Asn Ala Leu Leu
 1 5 10 15
 Glu Glu Lys Ile Ile Arg Leu Val Leu Ser Glu Leu Gly His Pro Val
 20 25 30
 Glu Gly Glu Arg Leu Leu Leu Leu Ser Gln Asp Pro Ser Leu Thr Glu
 35 40 45
 Glu Ile Met Arg Leu Lys Glu Arg Ile Glu Ser Leu Ala Gln Gly Leu
 50 55 60
 Ser Ala Arg Val Ser Glu Gly Asp Asn Asp Ala Glu Ile Ala Ala Ser
 65 70 75 80
 Ser Ala Ser Ser Leu Ser Asp Gln Gln Gln Thr Val Val Ser Val Ala
 85 90 95
 Asp Asn Pro Gly Ile Asp Ala Thr Asp Thr Ser Ala Leu Gln Pro Leu
 100 105 110

Pro Glu Asn Glu Pro His Pro Pro Phe Trp Lys Leu Met Pro Tyr Tyr
 115 120 125
 Glu Phe Asp Lys Pro Ala Gln Arg Glu Asp Glu Asn Leu Ser Ser Leu
 130 135 140
 Val Leu Lys Pro Gly Gln Ile Pro Thr Gly Gln Gln Arg Ala Ser Leu
 145 150 155 160
 Ala Val Pro Pro Ala Val Pro Pro Arg Ala Lys Ile Thr Ile Pro Asn
 165 170 175
 Ala Arg Ala Gly Glu Arg Phe Ser Ser Pro Val Ala Ile Val Leu Gly
 180 185 190
 Glu Gly Gln Gln Ala Thr Val Arg Asp Val Val Phe Pro Arg Asn Ile
 195 200 205
 Gly Leu Ser Phe Asp Lys Glu Gln Glu Leu Leu Thr Gly Thr Pro Thr
 210 215 220
 Glu Ser Gly Asp Ile Glu Leu Ser Val Ile Trp Ser Cys Thr Ser His
 225 230 235 240
 Asp Glu Cys Glu Thr Lys Gln Leu Phe Ile Ile Asn Pro Asp Pro Arg
 245 250 255
 Ser Leu Trp Lys Val Val Glu Pro Pro Ala Asp Ala Pro Tyr Pro Lys
 260 265 270
 Ser His Leu Asp Ala Ala Gly Leu Val Arg Gly Asp Ile Arg Ile Ala
 275 280 285
 Ala Ala Ser Arg Arg Gly Arg Ser His Glu His Ala Gly Ser Phe Arg
 290 295 300
 Asp Asp Asp Phe Tyr Ile Asn His Cys Gln Glu Thr Gly Trp Ser Val
 305 310 315 320
 Met Leu Val Ala Asp Gly Ala Gly Ser Ala Val Asn Ser Arg Glu Gly
 325 330 335
 Ser Arg Ile Ala Val Lys Thr Ala Gly Asp Tyr Leu Leu Asn Gln Leu
 340 345 350
 Ser Gly Val Lys Gly Val His Leu Lys Gln His Ile Thr Ala Trp Glu
 355 360 365
 Gly Ser Asp Gln Gln Ala Thr Ile Asn Ala Met Leu His His Phe Lys
 370 375 380
 Gln Ala Ala Thr Leu Ala Val Asn Ser Ile Gln Asn Glu Ala Ile Cys
 385 390 395 400
 Ala Glu Gln Pro Val Lys Ser Tyr Ser Thr Thr Leu Leu Ala Thr Val
 405 410 415
 Ala Leu Arg Thr Asp Asn Glu Leu Phe Ala Ala Ala Phe Trp Leu Gly
 420 425 430
 Asp Gly Ala Ile Gly Ala Tyr Ser Pro Ser Gly Lys Val Arg Ile Leu
 435 440 445
 Gly Asn Pro Asp Ser Gly Glu Tyr Ala Gly Gln Thr Arg Phe Leu Asp
 450 455 460
 Gln Ser Ile Ile Ala Asp Pro Ser Phe Ser Gly Arg Ile Ser Val Gly
 465 470 475 480
 Lys Trp Asn Asp Val Ser His Leu Ile Leu Met Thr Asp Gly Val Ser
 485 490 495
 Asp Pro Leu Phe Glu Thr Asp Asn Gly Leu Arg Ser Asp Glu Lys Trp
 500 505 510
 Thr Arg Leu Val Asp Glu Leu Asn Pro Val Leu Thr Asp Ala Ser Ile
 515 520 525
 Ala Pro Glu Arg Leu Gly Asp Trp Leu Asn Phe Phe Ser Thr Gly Asn
 530 535 540
 His Asp Asp Arg Thr Ile Ala Val Leu Trp
 545 550 555

<210> 11029

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 11029

Phe Glu Lys Arg Gly Val Cys Pro Glu Leu Leu Pro Gly Ile Cys Leu
 1 5 10 15
 Ser Arg Gly Glu Pro Phe Phe Met Phe Phe Cys Phe Lys Leu Pro Val
 20 25 30
 Cys Ile Leu Phe Gly Pro Gly Arg Pro Leu Leu Leu Val Pro Val Leu
 35 40 45
 Ser Lys Gly Ile Leu Thr Leu His Ile Asn Gln Leu Leu Leu Pro Pro
 50 55 60
 Ala Lys Ile Phe Gly Val Ala Leu Ser Phe Ser
 65 70 75

<210> 11030

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 11030

Arg Leu His Leu Phe Val Lys Val Asn Asp Leu Cys Val Ala Val Phe
 1 5 10 15
 Leu Asp Arg Asp Arg Ser Ile Ser Ala Lys Leu Thr Phe Asp His Leu
 20 25 30
 His Pro Ser Glu Arg Val Ala Ala Leu Arg Ile Asp Leu Pro Asp Ile
 35 40 45
 Glu Tyr Glu Ile Ser Gln Val Gln Leu Gly Arg Arg Lys Thr Thr Tyr
 50 55 60
 Ser Glu Cys Ile Glu Ser Leu Ile Ile Asp Glu Thr Ser Ser Arg Glu
 65 70 75 80
 Trp Leu Tyr His Pro Leu Met His Glu Leu Glu Ser Glu Pro Leu Gln
 85 90 95
 Glu Tyr Arg Gly Arg Glu Pro Ser Glu Glu Gly Pro Leu Leu Gln Arg
 100 105 110
 Leu Ala Asp Cys Lys Met Lys Leu Pro Asp Ile Leu Pro Gly Ser His
 115 120 125
 Asn Ala Leu Val Arg Leu Gln Gln Asp Thr Ile Val Cys Leu Cys Arg
 130 135 140
 Leu Thr Val Arg Ala Tyr Asp Ile Ala Gln Thr Asp Glu Phe Pro Leu
 145 150 155 160
 Phe Leu Arg Tyr Phe Arg Leu His Cys Leu Glu Asn Ser Glu His Val
 165 170 175
 Ser Tyr Glu Arg Leu Ile Cys Trp Gln Glu Met Ile Ser Lys Thr Gln
 180 185 190
 Glu Gly Gln Ser Leu Thr Gln Asn Glu Leu Glu Tyr Leu His Glu Ile
 195 200 205
 Val Arg Ile Ala Leu Tyr Asn His Arg Leu Asn Asn Val Ser Ile Ser
 210 215 220
 Asp Val Lys Asn His Asp Thr Gly Lys Glu Ser Ser Arg Val Glu Pro
 225 230 235 240
 Gln Asn Tyr Ser Leu Leu
 245

<210> 11031

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 11031

Thr Arg Ser Phe Arg Ser Gly Leu Ser Ser Ser Ala Ile Arg Val Phe
 1 5 10 15
 Thr Phe Phe Ala Ala Ala Ser Val Asn Ser Ser Gly Asn Ala Thr Ser

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<210> 11032
<211> 69
<212> PRT
<213> Enterobacter cloacae
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<210> 11033
<211> 324
<212> PRT
<213> Enterobacter cloacae
```

<400>	11033															
Ile Cys Ile Ser Arg Gly Ile Met Lys Ile Pro Lys Lys Lys Thr Gly																
1				5					10					15		
His Phe Ile Leu Ser Ala Gln Thr Lys Arg Glu Asn Ala Met Asp Asn																
			20					25					30			
His Ile Ser Ser Arg Ala Leu Leu His Arg Arg Asp Val Ile Lys Asn																
		35					40					45				
Asn Pro Arg Phe Gly Glu Ala Ile Thr Glu His Tyr Arg Ile Asn Asp																
	50					55					60					
Val Ile Tyr Lys Lys Gln Pro Leu Phe Tyr Lys Thr Met Leu Gln Glu																
65				70					75					80		
Ser Arg Phe Asn Ile Ile Leu Ser Met Cys Cys Phe Val Phe Gly Asn																
			85					90						95		
Gln Ala Glu Ser Val Ser Glu Ile Lys Ala Leu Cys Thr Arg Tyr Asn																
			100					105					110			
Ile Ala Ser Pro Asn Ser Val Ile Ala Ile Ile Thr Ile Leu Lys Thr																
		115					120					125				
Thr Gly Arg Ile Lys Thr Trp Arg Cys Ser Glu Asp Arg Arg Lys Thr																
	130					135					140					
Lys Ile Ala Pro Thr Glu Lys Gly Leu Asp Glu Leu Lys Arg Tyr Met																
145				150					155					160		
Ser Gly Ala Phe Thr Pro Val Ser Ile Leu Tyr Pro Ala Phe Asn Ile																
			165					170					175			
Asn Val Asn Leu Leu Asp Asn Asp Ile Leu Arg His Asn Phe Phe Arg																
			180				185					190				
Arg Ala Ala Glu Tyr Leu Phe Arg Gly Leu Thr Phe Arg Lys Val Leu																
		195				200					205					
Pro Glu Val Gly Leu Phe Ile Asp Lys Asp Gly Gly Arg Met Ile Met																
	210					215					220					

Leu Tyr Leu Tyr Leu Gln Ala Ile Lys Asn Lys Thr Ala His Gly Ala
 225 230 235 240
 Ile Ile Ala Tyr Ser Ala Ser Thr Leu Ala Lys Glu Phe Phe Val Ser
 245 250 255
 Arg Ile His Val Asn Arg Ile Ile Lys Ser Ala Gln Glu Ala Gly Tyr
 260 265 270
 Leu Lys Asp Arg Gly Asp Gly Arg Met Ser Ile Tyr Pro Ala Phe Ile
 275 280 285
 Glu Leu Val Glu Asn Tyr Ala Gly Leu Tyr Phe Ala Tyr Val Thr His
 290 295 300
 Tyr Ile Asn Val Val Pro Lys Glu Arg Arg His Ala Val Asn Met Thr
 305 310 315 320
 Pro Thr Leu

<210> 11034

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 11034

Lys Glu Glu Ala Asn Met Arg Ile Ile Leu Met Leu Cys Cys Phe Leu
 1 5 10 15
 Val Gln Ser Leu Ser Trp Ala Gly Glu Leu Pro Lys Pro Val Gly Lys
 20 25 30
 Pro Ile Leu Thr Ile Asn Gly Asn Ile Glu Asn Thr Asn Glu Asn Gly
 35 40 45
 Asn Ala Val Phe Asp Ile Ala Ser Leu Glu Lys Leu Gly Met Val Ser
 50 55 60
 Phe Gln Thr Thr Ser Pro Trp Tyr Asn Gly Arg Thr Lys Phe Glu Gly
 65 70 75 80
 Ile Pro Met Arg Lys Leu Met Glu Tyr Val Gly Ala Lys Gly Ser Val
 85 90 95
 Leu Asn Val Ile Ala Leu Asn Asp Tyr Thr Thr Val Ile Pro Leu Ser
 100 105 110
 Asp Phe Gln Lys Tyr Asn Ala Ile Leu Ala Leu Lys Val Asn Gly Glu
 115 120 125
 Tyr Met Arg Ile Arg Asp Lys Gly Pro Ser Phe Ile Val Tyr Pro Tyr
 130 135 140
 Asp Ser Leu Pro Glu Leu Asn Asn Gln Ile Tyr Tyr Ser Arg Ser Ala
 145 150 155 160
 Trp Gln Val Ser Lys Met Lys Ile Glu
 165 170

<210> 11035

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 11035

Leu Asn Arg Phe Ser Ser Met Asn Leu Ser Arg Gln Glu Gln Arg Thr
 1 5 10 15
 Leu His Val Leu Ala Lys Gly Gly Arg Ile Val His Val Arg Asp Thr
 20 25 30
 Ser Gly Arg Val Thr Ala Val Glu Cys Tyr Ser Arg Glu Gly Leu Leu
 35 40 45
 Leu Ala Asp Cys Thr Leu Ala Val Phe Lys Lys Leu Lys Thr Lys Lys
 50 55 60
 Leu Ile Lys Ser Val Asn Gly Gln Pro Tyr Arg Ile Asn Thr Thr Gly
 65 70 75 80
 Leu Asn Asn Val Arg Ala Gln Pro Asp Asn Arg

85

90

<210> 11036

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 11036

Ser	Ser	Ile	Ser	Ser	Ser	Thr	Lys	Ile	Gly	Asn	Thr	Arg	Ser	Phe	Lys
1				5					10					15	
Val	Ser	Val	Val	Ser	Ser	Asn	Met	Ala	Arg	Ser	Ala	Gly	Asp	Leu	Arg
			20					25					30		
Arg	Arg	Arg	Gly	Arg	Ala	Ile	Lys	Ser	Val	Met	Val	Cys	Leu	Met	Phe
			35				40					45			
Val	Glu	Gln	Arg	Gly	Ile	Val	Tyr	Leu	Lys	Ala	Gly	Ser	Gly	Val	Leu
	50				55						60				
Leu	Lys	Leu	Ser	Phe	Arg	Phe	Ser	Lys	Ser	Thr	Asn	Ile	Arg	Cys	Met
65					70					75					80
Tyr	Leu	Val	Tyr	Ile	Ile	Asn	Leu	Ile	Leu	Met	Phe	Ser	Val	Ala	Cys
				85					90					95	
Asn	Ile	Gly	Glu	Ala	Ser	Ile	Leu	Val	Trp	Asp	Tyr	Lys	Tyr	Lys	
			100					105					110		

<210> 11037

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 11037

Arg	Lys	Ala	Asn	Asn	Ile	Pro	Arg	Cys	Pro	Ala	Gly	Phe	Ala	Ala	Phe
1				5					10					15	
Cys	His	Asn	Ile	Leu	Arg	Asp	Ala	Glu	Gly	Gly	Arg	Val	Lys	Gly	Lys
			20					25					30		
Gly	Leu	Phe	Ile	Leu	Ile	Val	Ile	Ala	Gly	Ile	Val	Thr	Val	Gly	Tyr
		35					40					45			
Arg	Trp	Leu	Pro	Ser	Gln	Tyr	Asn	Pro	Phe	Val	Pro	Leu	Thr	Leu	Asp
	50				55					60					
Asp	Pro	Pro	Gly	Lys	Ile	Thr	Gln	Phe	Lys	Leu	Arg	Arg	Leu	Thr	Pro
65					70					75					80
Gln	Ala	Cys	Glu	Ser	Leu	Leu	Thr	Gln	Ala	Asn	Gln	Arg	Arg	Leu	Ile
				85					90					95	
Arg	Thr	Gln	Ala	Val	Ala	Asp	Ser	Ala	Gly	Glu	Cys	Pro	Leu	Ser	Asn
			100					105					110		
Val	Val	Arg	Val	Arg	Asp	Phe	Gly	Pro	Val	Ser	Leu	Asn	Ser	Ser	Phe
		115					120					125			
Leu	Ala	Ser	Cys	Pro	Leu	Ala	Leu	Ser	Ser	Ala	Leu	Phe	Val	Ser	Gln
	130					135					140				
Gln	Ala	Arg	Pro	Leu	Thr	Lys	Thr	Trp	Thr	Gly	Ser	Glu	Leu	Ala	Arg
145					150					155					160
Ile	Glu	His	Leu	Gly	Ser	Phe	Ala	Cys	Arg	Asn	Ile	Tyr	Ser	Arg	Pro
			165						170					175	
Asp	Ala	Arg	Arg	Ser	Glu	His	Ala	Thr	Ala	Asp	Ala	Leu	Asp	Ile	Ser
			180					185					190		
Ala	Phe	Arg	Leu	Ala	Asn	Gly	Gln	Arg	Val	Thr	Val	Leu	Asn	Gly	Trp
		195					200					205			
Lys	Ala	Glu	Lys	Thr	Gln	Pro	Trp	Leu	Gln	Ala	Leu	Leu	Ser	Ala	Ser
	210					215					220				
Cys	Gly	Tyr	Tyr	Gly	Asn	Gly	Leu	Gly	Pro	Asp	Tyr	Asn	Ala	Ala	His
225					230					235					240
Ala	Asn	His	Phe	His	Leu	Gly	Met	Arg	Gly	Tyr	Gly	Leu	Cys	Arg	
				245					250					255	

<210> 11038
 <211> 117
 <212> PRT
 <213> Enterobacter cloacae

<400> 11038
 Leu Ser Ser Ala Gly Ala Asn Ile Phe Leu Leu Thr Gly Cys Pro Gly
 1 5 10 15
 Pro Gly Asp Arg Met Val Asp Arg Glu Ser Thr Thr Ala Phe Ile Lys
 20 25 30
 Asp Asn Gln Val Cys Val Val Ser Pro Leu Glu Pro Gln Glu Arg Ile
 35 40 45
 Thr Ala Ile Gln Ile Asn Ser Asp Asn Ser Asp Ser Leu His Asn Ile
 50 55 60
 Phe Asp Asp Lys Pro Val Tyr Val Pro Lys Gly Glu Cys Leu Pro Val
 65 70 75 80
 Phe Gly Phe Lys Phe Thr Pro Gly Glu Arg Tyr Asn Phe Ala Tyr Asp
 85 90 95
 Val Gln Ser Ala Lys Ser Gly Ala Tyr Leu Val Thr Ala Glu Phe Ser
 100 105 110
 Tyr Pro Lys Glu
 115

<210> 11039
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11039
 Arg Pro Thr Leu Thr Met Val Lys Glu Arg Leu Met Phe Arg Trp Gly
 1 5 10 15
 Ile Ile Phe Leu Val Ile Ala Leu Ile Ala Ala Ala Leu Gly Phe Gly
 20 25 30
 Gly Leu Ala Gly Thr Ala Ala Trp Ala Ala Lys Ile Val Phe Val Val
 35 40 45
 Gly Ile Ile Leu Phe Leu Val Ser Leu Phe Thr Gly Arg Arg Arg Pro
 50 55 60

65

<210> 11040
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 11040
 Arg Tyr Arg Arg Asp Val Lys Arg Val Thr Leu Glu Ala Ile Pro Pro
 1 5 10 15
 Lys Asn Thr Asp Lys His Met Trp Ile Gly Phe Asn Leu Ser Gln Asp
 20 25 30
 Leu Pro Asn Gly Ile Lys Asn Ile Ser Val Ala His Thr Ala Phe Arg
 35 40 45
 Glu Leu Asp Phe Lys Val Leu Asn Thr Arg Arg Val Met Leu Glu Val
 50 55 60
 Lys Arg Ala Asp Gly Ser
 65 70

<210> 11041
 <211> 63
 <212> PRT

<213> Enterobacter cloacae

<400> 11041

```

Met Lys His Leu Gly Lys His Leu Leu Met Thr Phe Ser Leu Met Ala
1      5      10      15
Thr Leu Phe Thr Pro Ala Ser Trp Ser Ala Asp Glu Cys Leu Leu Thr
20      25      30
Leu Thr Pro Val Leu Ser Asp Arg Gln Phe Asn Tyr Val Gly Asp Thr
35      40      45
Val Thr Leu Glu Ser Asn Leu Met Trp Glu Val Leu Thr Lys
50      55      60

```

<210> 11042

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 11042

```

Val Asn Ser His His Ala Lys Ile Leu Arg His Leu Ser Cys Leu Val
1      5      10      15
Gly Lys Pro Asp Ile His Arg Ile Ser Arg Asn Leu Leu Val Lys Tyr
20      25      30
Ser Gly Ile Gly Glu Leu Gln Ser Asp Ile Pro Phe Phe Tyr Phe Val
35      40      45
Met Phe Leu His Phe Ser Glu Phe Ser Phe Leu Pro Thr Glu Tyr Ile
50      55      60
Leu Ser Thr Leu
65

```

<210> 11043

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 11043

```

Lys Ala Ala Ile Met Ser Thr Arg Arg Phe Ser Thr Thr Ala Leu Ala
1      5      10      15
Val Val Leu Ala Leu Thr Phe Ala Thr Ala Pro Ala Met Ala Asn Pro
20      25      30
Gly Asn Gly Asn Gly Gly Gly His Gly Asn Gly Gly Gly Gln Gly Asn
35      40      45
Ser Gly Asn His Gly Asn Gly Asn Ser Gly Asn His Gly Asn Lys His
50      55      60
Asn Asn Gly Gln Asp Asn Pro Gly Lys Ser Asp Lys Ser Phe Lys Asn
65      70      75      80
Ser Lys Asp Val Gly Asn Asp Val Asp Ala Arg Val Ser Phe Asp His
85      90      95
Ala Arg His Leu Ala Leu Asn Tyr Gly Leu Thr Gly Tyr Asp Ser Leu
100      105      110
Pro Pro Gly Ile Ala Lys Asn Leu Ala Arg Gly Lys Pro Leu Pro Pro
115      120      125
Gly Ile Ala Lys Lys Thr Val Pro Ala Asp Met Leu Gly Gln Leu Pro
130      135      140
Ser Tyr Pro Gly Tyr Glu Trp Arg Val Val Gly Tyr Asp Leu Val Leu
145      150      155      160
Ile Ala Leu Ser Thr Ala Ile Val Thr Ser Val Ile Asn Gly Val Phe
165      170      175
Lys

```

<210> 11044

<211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 11044
 Ala Val Ile Gln Gly Gln Met Ala Gly Met Ile Glu Ala Tyr Ala Ser
 1 5 10 15
 Ile His Ile Ile Thr Asp Ile Phe Ala Val Phe Lys Ala Leu Ile Arg
 20 25 30
 Phe Pro Arg Val Ile Leu Thr Val Ile Val Leu Ile Thr Met Val Thr
 35 40 45
 Arg Val Pro Val Thr Met Ile Ala Ala Ile Thr Leu Ser Ala Thr Val
 50 55 60
 Ser Val Thr Thr Ala Ile Pro Val Thr Arg Ile Ser His Gly Arg Ser
 65 70 75 80
 Arg Cys Lys Arg
 85

<210> 11045
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 11045
 Gly Ser Ser Asp Phe Val Arg Ile Met Pro Leu Ala Lys Thr Lys Ser
 1 5 10 15
 Ile His Arg Phe Arg Arg His Ala Arg Tyr Ala Pro Cys Arg Phe Lys
 20 25 30
 Lys Leu Ile Leu Leu Met Gln Ser Leu Leu Leu Ile Leu Ile Tyr
 35 40 45
 Leu Phe Leu Phe Ile Ser Gly Asn Phe Tyr Asn Glu Thr Ser Val Glu
 50 55 60
 Lys Phe His Glu
 65

<210> 11046
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 11046
 Leu Lys Ser Arg Val Lys Lys Arg Thr Ile Lys Ala Pro Arg Lys Trp
 1 5 10 15
 Gly Leu Phe Asn Thr Leu Ala Ser Ser Val Ser Phe Val Arg Tyr Leu
 20 25 30
 Tyr Leu Met Asp Asn Ser Gln Asn Arg Leu Asp Ile Ala Phe Glu Leu
 35 40 45
 Cys Ile Tyr Ile Gly Pro Arg Met Gly Gln Ile Arg Arg Tyr His Arg
 50 55 60
 Asn Val Asn Tyr Trp Ser Tyr Ser Leu Leu
 65 70 75

<210> 11047
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11047
 Val Pro Gln Arg Ala Gln Pro Leu Ser Phe Val Ala Ser Gly Gln Ala
 1 5 10 15
 Gly Asn Ser Lys Glu Thr Ala Ser Asp Lys Leu Glu Glu Gly Gly Asp

65

<400> 11048

```
<210> 11049
<211> 64
<212> PRT
<213> Enterobacter cloacae
```

Leu	His	His	Leu	Leu	Leu	Arg	Thr	Gln	Glu	Asn	Phe	Arg	Val	Asn	Leu
1				5					10					15	
Lys	Arg	Cys	Thr	Ala	Lys	Phe	Cys	Ser	Leu	Lys	Ile	Trp	Ile	Lys	Leu
			20					25					30		
Lys	Ile	Glu	Thr	Thr	His	Ser	Ser	Cys	Val	Phe	Glu	Ser	Leu	Lys	Phe
		35					40					45			
Ser	Gln	Ser	Glu	Val	Lys	His	Leu	Arg	Val	Val	Arg	Leu	Ser	Asp	
	50					55					60				

```
<210> 11050
<211> 121
<212> PRT
<213> Enterobacter cloacae
```

Val	Ala	Asp	Pro	Leu	Tyr	Lys	Arg	Tyr	Ala	Val	Thr	Pro	Arg	Arg	Cys
1				5					10					15	
Ser	His	Cys	Leu	Tyr	Val	His	Gly	Phe	Arg	Phe	Phe	Phe	Thr	Pro	Leu
			20					25					30		
Ala	Gly	Val	Leu	Phe	Ala	Phe	Pro	Ser	Arg	Tyr	Trp	Phe	Thr	Ile	Gly
			35				40					45			
Gln	Ser	Gly	Val	Phe	Ser	Leu	Gly	Gly	Trp	Ser	Pro	His	Ile	Gln	Thr
	50					55					60				
Gly	Tyr	His	Val	Ser	Arg	Pro	Thr	Leu	Arg	Val	His	Ser	Lys	Cys	Val
65					70					75				80	
Phe	Val	Tyr	Gly	Thr	Ile	Thr	Leu	Tyr	Arg	Arg	Thr	Phe	Gln	Thr	Val
				85					90				95		
Pro	Leu	Thr	His	Lys	Leu	Ile	Gln	Thr	Pro	Gly	Cys	Ser	Pro	Phe	Ala
			100					105					110		
Arg	Arg	Tyr	Trp	Gly	Asn	Leu	Gly								

115

120

<210> 11051

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 11051

Leu	Pro	Phe	Pro	Val	Val	Ile	Pro	Leu	His	Gln	Ala	Val	Ser	Gln	Thr
1				5					10					15	
Leu	Leu	Thr	Arg	Pro	Pro	Leu	Val	Ser	Lys	Ala	Ala	Ser	Cys	Phe	Leu
			20					25					30		
Leu	Pro	Phe	Asp	Leu	His	Val	Leu	Gly	Leu	Pro	Pro	Ala	Phe	Asn	Leu
			35				40					45			
Ser	His	Asp	Gln	Thr	Leu	Gln	Phe	Lys	Ser	Leu	Met	Leu	Asn	Glu	Leu
	50					55					60				
Asn	Phe	Val	Met	Asn	Tyr	Val	Phe	Thr	Arg						
65					70				75						

<210> 11052

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11052

Gly	Gly	Gln	Gly	Ser	Ala	Ser	Met	Lys	Asn	Lys	Asp	Glu	Gln	Thr	Gly
1				5				10					15		
Leu	Val	Gly	Leu	Ala	Ile	Gly	Ala	Ala	Val	Ile	Gly	Leu	Val	Ser	Ser
			20					25					30		
Gln	Lys	Ile	Ile	Asn	Arg	Glu	Ser	Ile	Val	Asp	Glu	Leu	Val	Arg	Leu
			35				40					45			
Gly	Arg	Gln	Lys	Gly	Asp	Gly	Val	Glu	Asp	Glu	Val	Phe	Leu	Lys	Ala
	50					55					60				
Ala	Glu	Leu	Val	Arg	Lys	Gly	Val								
65					70										

<210> 11053

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 11053

Ala	Met	Ala	Asp	Ile	Arg	His	Ala	Gln	Cys	His	Cys	Gly	Ala	Val	Lys
1				5				10					15		
Phe	Thr	Val	Glu	Leu	Thr	Asp	Gly	Leu	Asn	Thr	Ala	Arg	Arg	Cys	Ser
			20					25					30		
Cys	Ser	Phe	Cys	Arg	Met	Arg	Gly	Ala	Val	Val	Val	Ser	Ala	Pro	Leu
			35				40					45			
Thr	Gly	Ile	Lys	Val	Thr	Gln	Gly	Ala	Asp	Thr	Leu	Thr	Glu	Tyr	Arg
	50					55					60				
Phe	Asn	Thr	Gly	Thr	Ala	Arg	His	Phe	Phe	Cys	Ser	Ile	Cys	Gly	Ile
65					70					75				80	
Tyr	Thr	Phe	His	Gln	Arg	Arg	Ser	Asn	Pro	Asn	Glu	Tyr	Gly	Val	Asn
			85					90						95	
Val	Ala	Cys	Leu	Glu	Asn	Val	Thr	Pro	Phe	Asp	Phe	Pro	Glu	Val	Ala
			100					105					110		
Val	Met	Asp	Gly	Val	Asn	His	Pro	Met	Asp	Gly	Asp	Ser	Gly	Val	Phe
			115				120					125			
Gly	Tyr	Leu	Ser	Phe	Arg	Lys	Glu	Gln	Thr	Lys	Gln	Arg			
	130					135					140				

<210> 11054
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11054
 Gln His Arg Arg Ile Gly Leu Thr Asn Asn Glu Ser Leu Ser Gly Tyr
 1 5 10 15
 Ser Lys Ala Val His Phe Ala Gly Phe Ser Ile Thr Pro Gln Lys Pro
 20 25 30
 Ile Cys Leu Lys Val His Tyr Ser Ser Ser Thr Thr Ile Thr Ile Asn
 35 40 45
 Ala Ala Arg Asn Arg Pro Phe Tyr Arg Leu Leu Arg Arg Leu Leu Ala
 50 55 60

65

<210> 11055
 <211> 453
 <212> PRT
 <213> Enterobacter cloacae

<400> 11055
 Arg Ser Leu Gln Asp Gln Ile Val Ala Lys Thr Leu Leu Arg Ser Gly
 1 5 10 15
 Asn Leu Asp Asp Phe Gln Ala Val Gly Gly Gly Gly Gln Ala Val Phe
 20 25 30
 Glu Ser Ala Leu Gln Ile Arg Glu Ala Leu Arg Leu Arg Lys Gln Gln
 35 40 45
 Ala Ile Val Asp Cys Leu Ala Ile Pro Gln Val Tyr Asp Gly Gly Asp
 50 55 60
 Arg Val Asp Trp Tyr Ser Pro Val Glu Gly Thr Val Ser Ser Trp Lys
 65 70 75 80
 Ala Ala Asp Glu Asp Asp Arg Tyr Arg Ala Leu Arg Tyr Leu Glu Asn
 85 90 95
 Thr Leu Ala Ser Val Glu Ser Leu Ser Lys Lys Cys Leu Gln Ser Pro
 100 105 110
 Lys Thr Ala Gln Gln Leu Phe Gly Ser Leu Leu Ser Lys Ala Phe Gln
 115 120 125
 Phe Pro Gly Glu Asn Phe Val Phe Leu Val Asp Gly Lys Pro Val Ile
 130 135 140
 Cys Phe Trp Gly Phe Val Asn Leu Asn Glu Asn Ala Arg Glu Asp Val
 145 150 155 160
 Leu Asp Cys Leu Arg Glu Ser Leu Val Pro Glu Pro Glu Pro Val Val
 165 170 175
 Ile Asn Glu Pro Glu Pro Glu Gln Glu Gln Glu Pro Ala Pro Val Val
 180 185 190
 Thr Phe Glu His Ala Asp Ala Pro Leu Ile Thr Pro Val Ala Ser Val
 195 200 205
 Arg Ile Thr Glu Asp Glu Leu Tyr Thr Pro Glu Pro Val Arg Met Asn
 210 215 220
 Ala Ala Pro Pro Glu Pro Ala Pro Val Ala Met Gln Lys Lys Arg Arg
 225 230 235 240
 Ser Pro Leu Trp Leu Leu Pro Val Ala Ala Val Ile Ile Ala Ala Ile
 245 250 255
 Ala Thr Pro Leu Leu Trp Pro Lys Gln Ala Pro Thr Ala Ala Pro Val
 260 265 270
 Ala Thr Pro Ala Pro Val Pro Val Ala Ile Ala Pro Ala Pro Val Lys
 275 280 285
 Thr Val Glu Pro Leu Glu Leu Lys Leu Pro Leu His Gln Ala Glu Val
 290 295 300

Val Glu Pro Lys Val Lys Thr Pro Ala Pro Ala Ala Glu Pro Val Val
 305 310 315 320
 Ile Thr Ala Ile Pro Lys Asp Ala Met Val Met Glu Ala Asn Gln Val
 325 330 335
 Lys Ala Gly Leu Thr Arg Phe Leu Asn Gly Thr Trp Arg Ala Phe Leu
 340 345 350
 Asp Val Gln Asp Pro Leu Thr Gly Lys Pro Pro Ser Leu Arg Tyr Gln
 355 360 365
 Ile Gln Asn Asn Lys Gly Phe Ala Arg Val Val His Gly Asp Asn Ile
 370 375 380
 Val Cys Arg Val Asp Val Phe Ser Gly Leu His Ser Lys Gly Glu Leu
 385 390 395 400
 Leu Ile Lys Thr Arg Gly Asn Ala Arg Cys Thr Asp Gly Ser Arg Tyr
 405 410 415
 Pro Met Pro Glu Val Thr Cys Lys Ala Gly Ala Ser Asp Val Ala Glu
 420 425 430
 Cys Thr Ala Arg Tyr Asp Ala Asn Thr Ile Val Pro Leu Thr Phe Lys
 435 440 445
 Lys Ala Gly Val
 450

<210> 11056

<211> 749

<212> PRT

<213> Enterobacter cloacae

<400> 11056

Thr Glu Tyr Ser Gly Arg Ser Pro Thr Gln Arg Gln Pro Leu Leu Asp
 1 5 10 15
 Arg Gln Arg Glu Arg Ile Pro Gln Met Thr Ala Thr Thr Ala Thr Thr
 20 25 30
 Gln Ala Leu Ile Gly Trp Ile Asn Glu Thr Arg Gln His Ala Pro Met
 35 40 45
 Leu Asp Asn Glu Ala Asp Ala Leu Leu Ala Arg Leu Asn Ala Leu Ser
 50 55 60
 Ala Arg Glu Glu Ala Leu Asp Arg Ala Leu Val Ser Gln Gly Ser Ile
 65 70 75 80
 Gly Leu Tyr Gly His Ser Gln Ala Ala Lys Ala His Leu Leu Ala Ala
 85 90 95
 Leu Cys Gly Ser Gly Asp Glu Arg Leu Asn Val Thr Pro Gly Gln Arg
 100 105 110
 Thr Phe Asp Tyr Phe Ser His Ile Asn Pro Gly His Ala Pro Thr Asn
 115 120 125
 Met Ala Val Arg Phe Ser Arg Ala Ser Arg Glu Val Ala Asp Asp Ala
 130 135 140
 Phe Pro Leu Arg Leu Arg Leu Val Thr Glu Ala Glu Leu Val Gln Leu
 145 150 155 160
 Phe Ile Ala Arg Thr Thr Leu Asp Pro Gln Ile Arg Ala Val Asp Lys
 165 170 175
 Ser Val Ile Glu Ala Arg Leu Glu Lys Trp Arg Ala Leu Arg Gln Pro
 180 185 190
 Gln Ser Val Pro Gly Met Thr Ala Arg Glu Val Ala Thr Ile Ala Arg
 195 200 205
 Phe Trp Gln Ser Val Val Pro Gly Ala Lys Gln His Ile Asp Asp Ala
 210 215 220
 Leu Trp His Gln Phe Ala Leu Leu Val Pro Ser Leu Asp Leu Ser Thr
 225 230 235 240
 Arg Ala Ser Val Trp Ser Leu Leu Trp Gly Glu Gln Gln Glu Leu Thr
 245 250 255
 Gln Gln Trp Leu Lys Phe Ala Gln Val Leu His Gln Thr Ser His Ala
 260 265 270

Ser	Ala	Leu	Ala	Ala	Pro	Leu	Ser	Leu	Leu	Val	Asp	Ser	Phe	Gly	Leu
		275					280					285			
Pro	Cys	Glu	Gly	Phe	Leu	Thr	His	Gly	Ala	Phe	Thr	Val	Pro	Glu	Ala
	290					295					300				
Gln	Glu	Thr	Leu	Leu	His	Pro	Ile	Lys	Asn	Gly	Glu	Leu	Leu	Asn	Ala
305					310					315					320
Ile	Ser	Leu	Pro	Val	Asp	Val	Leu	Ala	Ser	Leu	Thr	Arg	Glu	Val	Val
				325					330					335	
Leu	Pro	Val	Glu	Asn	Cys	Val	Leu	Asp	Asn	Val	Asp	Val	Ile	Asp	Ile
			340					345					350		
Pro	Ala	Ile	Pro	Glu	Glu	Asn	Thr	Pro	Leu	Met	Met	Gln	Ala	Lys	Cys
	355						360					365			
Leu	Trp	Leu	Leu	Glu	His	Tyr	Arg	Gln	His	Ile	Gln	Pro	Asp	Val	Leu
	370					375					380				
Val	Ile	Cys	Asn	Ala	Thr	Ala	His	His	Gln	Gln	Thr	Ala	Lys	Thr	Ala
385					390					395					400
Arg	Leu	Leu	Gln	Asn	Trp	Val	Lys	Glu	Thr	Gln	Pro	Val	Glu	Glu	Ser
				405					410					415	
Ala	Leu	Pro	Gly	Leu	Val	Trp	Ala	Ile	Thr	Pro	His	Asp	Ala	Arg	Phe
			420					425					430		
Thr	Thr	Lys	Gln	Asn	Leu	Asp	Glu	Ala	Val	Gln	Gln	Leu	Gly	Gln	
		435					440					445			
Pro	Gly	Leu	Arg	Trp	Gly	Thr	Leu	Gln	Ala	Leu	Asp	Ser	His	Ser	Met
	450					455					460				
Gln	Arg	Val	Ile	Glu	Trp	Leu	Ser	Gln	Ala	Thr	Leu	Pro	Ala	Gln	Arg
465					470					475					480
Gln	Lys	Arg	Leu	Arg	Ala	Leu	Lys	Arg	Leu	Leu	Gln	Glu	Ser	Leu	Ser
				485					490					495	
Thr	Leu	Met	Arg	Pro	Tyr	Val	Ala	Pro	Leu	Thr	Gln	Glu	Pro	Gly	Ala
			500					505					510		
Gly	Arg	Ala	Met	Ala	Glu	Lys	Met	Val	Arg	Thr	Leu	Gln	Gly	Ser	Ala
		515					520					525			
Ala	Arg	His	Gly	Glu	Leu	Leu	Glu	Gly	Leu	Leu	Pro	Pro	Leu	Asn	Ala
		530				535					540				
Phe	Glu	Thr	Leu	Leu	Thr	Val	His	Gln	Pro	Arg	Glu	Glu	Gln	Val	Asn
545					550					555					560
Gly	Leu	Phe	Asn	Asp	Val	Ile	Asp	Leu	Phe	Ala	Glu	Glu	Thr	Gln	Glu
				565					570					575	
Asn	Pro	Gly	Ala	Leu	Gln	Thr	Lys	Asp	Lys	Ala	Arg	Leu	Ala	His	Asn
			580					585					590		
Val	Trp	Val	Asn	His	Leu	Arg	Gln	Trp	Ser	Arg	Asn	Asp	Ala	Ala	Ala
		595					600					605			
Ala	Arg	Leu	Gly	Leu	Asp	Ala	Glu	Val	Leu	Gln	Gln	Ile	Ala	Asp	Val
		610				615					620				
Leu	Ile	Val	Thr	Ser	Tyr	Arg	Leu	Asp	Leu	Pro	Leu	Gln	Leu	Gln	Arg
625					630					635					640
Ile	Ala	Glu	Lys	Asp	Lys	Ser	Ser	Ala	Ala	Gln	Leu	His	Ala	Ala	Thr
				645					650					655	
Gly	Asn	Phe	Ile	Ser	Trp	Leu	Gly	Tyr	Glu	Leu	Thr	Pro	Val	Ser	Glu
			660					665					670		
Arg	Pro	Ala	Ser	Arg	Ile	Arg	Lys	Gly	Glu	Pro	Ile	Phe	Val	Thr	Pro
		675					680					685			
Val	Val	Ser	Ser	Ala	Ser	Pro	Arg	Leu	Thr	Arg	Leu	Gly	Glu	Gln	Pro
		690				695					700				
Val	His	Ala	Ala	Thr	Ala	Tyr	Val	Tyr	Asp	Trp	Leu	Val	Ala	Leu	Tyr
705					710					715					720
Thr	Arg	Ala	Ile	Glu	Asn	Val	Asp	Tyr	Gln	Cys	Pro	Tyr	Asp	Val	Gln
				725					730					735	
Pro	Ala	Ala	Arg	Lys	Ala	Leu	Ser	Ala	Leu	Leu	Ser				
			740					745							

<210> 11057
 <211> 1003
 <212> PRT
 <213> Enterobacter cloacae

<400> 11057

Arg	Ser	Arg	Lys	Gln	Val	Ser	Asp	Pro	Met	Leu	Val	Asn	Leu	Cys	Asp
1				5					10					15	
Tyr	Lys	Gln	Ser	Val	Thr	Leu	Ile	Ala	Asn	Ser	Gly	Val	Gln	Phe	Leu
			20					25					30		
Asp	Phe	Gly	Leu	Thr	Pro	Gln	Asp	Thr	Ser	Ser	Asn	Gly	Arg	Phe	Val
		35					40					45			
Arg	Lys	Thr	Ala	Asn	Gly	Pro	Leu	Leu	Arg	Leu	Asp	Phe	Asp	Leu	Val
	50					55					60				
Asn	Gly	Arg	Tyr	Thr	Leu	Pro	Ala	Thr	Asp	Gly	Gly	Gln	Pro	Glu	Val
65					70					75					80
Val	Lys	Pro	Glu	Ser	Thr	Ile	Pro	Leu	His	Asn	Ser	Leu	Asn	Val	Leu
				85					90					95	
Asp	Gly	Val	Trp	Leu	Pro	Leu	Pro	Phe	Leu	Arg	Phe	Asn	Pro	Pro	Arg
			100					105					110		
Thr	Phe	Val	Asp	Gly	Pro	Asp	Asn	Trp	Ala	Arg	Val	Gln	Val	Arg	Lys
		115					120					125			
Leu	Ser	Thr	Pro	Asp	Ala	Ala	Gly	Asn	Thr	His	Arg	Val	Thr	Val	Ala
		130				135					140				
Leu	Asp	Ser	Gln	Ile	Ala	Glu	His	Ala	Thr	Ser	Ala	Leu	Ser	Pro	Val
145					150					155					160
Glu	Asn	Asp	Ile	Leu	Asn	Gly	Thr	Arg	Phe	Ala	Leu	Ala	Trp	Arg	Asp
				165					170					175	
Ser	Glu	Val	Glu	Ser	Phe	Leu	Asp	Gln	Thr	Trp	Ile	Asp	Gly	Trp	Leu
			180					185					190		
Arg	Glu	Ala	Phe	Thr	Gln	Phe	Ala	Asp	Gly	Val	Glu	Lys	Arg	Ser	Glu
		195					200					205			
Arg	Glu	Leu	His	Gln	Ala	Met	Arg	Ser	Phe	Glu	Tyr	Gln	Ala	His	Trp
		210				215					220				
Leu	Asn	Leu	Leu	Ser	Met	Leu	Gly	Glu	Gln	Leu	Thr	Val	Pro	Glu	Val
225					230					235					240
Lys	Phe	Val	Thr	His	Thr	Leu	Ser	Thr	Pro	Ala	Ile	Ser	Val	Asp	Leu
				245					250					255	
Ile	Leu	Asp	Val	Gly	Asn	Thr	His	Thr	Cys	Gly	Val	Ile	Ile	Glu	Asp
			260					265					270		
His	Gly	Asp	Ala	Asn	Asp	Gly	Leu	Arg	Gln	Thr	Ala	Glu	Leu	Gln	Val
		275					280					285			
Arg	Ser	Leu	Ser	Glu	Pro	Gln	Phe	Leu	Asn	Glu	Pro	Leu	Phe	Thr	Ser
		290				295					300				
Arg	Leu	Glu	Phe	Ser	Glu	Ala	Arg	Phe	Gly	Lys	Gln	His	Phe	Ser	Val
305					310					315					320
Glu	Ser	Gly	Arg	Glu	Asp	Ala	Phe	Val	Trp	Pro	Ser	Ile	Val	Arg	Val
				325					330					335	
Gly	Asp	Glu	Ala	Arg	Lys	Leu	Ala	Met	Gln	Arg	Leu	Gly	Thr	Glu	Gly
			340					345					350		
Asn	Ser	Gly	Ile	Ser	Ser	Pro	Arg	Arg	Tyr	Leu	Trp	Asp	Glu	Thr	Pro
		355					360					365			
Val	Val	Gln	Asp	Trp	Arg	Phe	Ser	Gln	Met	Asn	Ser	Lys	Thr	Gln	Arg
		370				375						380			
Glu	Pro	Leu	Ala	Thr	Ala	Phe	Pro	Leu	Met	Asn	Leu	Met	Asn	Asp	Asp
385					390					395					400
Gly	Glu	Pro	Leu	Phe	Thr	Leu	Pro	Gln	Asp	Glu	Arg	Leu	Pro	Val	Phe
				405					410					415	
Ser	Pro	Gln	Tyr	Ser	Arg	Ser	Thr	Leu	Met	Thr	His	Met	Leu	Cys	Glu
			420					425					430		
Leu	Leu	Ala	Gln	Ala	Leu	Gly	Gln	Ile	Asn	Ser	Val	Ala	Thr	Arg	Leu

		435					440					445				
Arg	Leu	Gly	Phe	Pro	Ala	Ser	Pro	Arg	Gln	Leu	Arg	Thr	Leu	Ile	Leu	
	450					455					460					
Thr	Leu	Pro	Ser	Ala	Met	Pro	Lys	Gln	Glu	Arg	Glu	Ile	Phe	Arg	Arg	
465					470					475					480	
Arg	Met	Phe	Glu	Ala	Ile	Ala	Ile	Val	Trp	Lys	Ala	Met	Gly	Trp	His	
				485					490					495		
Pro	Gln	Asp	Glu	Asp	Phe	Ala	Ser	Arg	Lys	Gln	Gln	Glu	Lys	Ser	Val	
			500					505					510			
Val	Pro	Val	Pro	Glu	Ile	Gln	Met	Glu	Trp	Asp	Glu	Ala	Ser	Cys	Gly	
		515				520					525					
Gln	Leu	Val	Trp	Leu	Tyr	Asn	Glu	Ala	Ile	Ser	His	Phe	Gly	Gly	Gln	
	530					535					540					
Thr	Glu	Ala	Phe	Phe	Ala	Ser	Leu	Ala	Arg	Pro	Asp	Arg	Ala	Pro	Glu	
545					550					555					560	
Pro	Gly	Val	Leu	Pro	Gly	Arg	Ala	Leu	Arg	Val	Ala	Ser	Ile	Asp	Ile	
				565					570					575		
Gly	Gly	Gly	Thr	Thr	Asp	Met	Ala	Ile	Thr	His	Tyr	Gln	Leu	Asp	Asp	
			580					585					590			
Gly	Ser	Gly	Asn	Asn	Val	Lys	Ile	Thr	Pro	Gln	Leu	Leu	Phe	Arg	Glu	
		595				600					605					
Gly	Phe	Lys	Val	Ala	Gly	Asp	Asp	Thr	Leu	Leu	Asp	Val	Ile	Gln	Arg	
	610					615					620					
Tyr	Val	Leu	Pro	Ala	Leu	Gln	Thr	Gln	Leu	Gln	Lys	Ser	Gly	Ile	Ala	
625					630					635					640	
Asp	Ala	Ser	Gln	Leu	Met	Ala	Ser	Leu	Phe	Gly	Asp	Ser	Gly	Arg	Ile	
				645					650					655		
Asp	Thr	Gln	Ala	Val	Leu	Arg	Gln	Gln	Thr	Ala	Leu	Gln	Leu	Phe	Met	
			660					665					670			
Pro	Ile	Gly	His	Ala	Ile	Leu	Ala	Ala	Trp	Glu	Ser	Ser	Asp	Val	Asp	
		675					680					685				
Asp	Pro	Leu	Ala	Gly	Leu	His	Ala	Thr	Phe	Gly	Asp	Leu	Leu	Thr	Gln	
	690					695					700					
Lys	Pro	Thr	Arg	Asn	Val	Met	Asn	Tyr	Leu	Gln	Gln	Ala	Ile	Asp	His	
705				710						715					720	
Ala	Leu	Pro	Ala	Gly	Ser	Glu	His	Phe	Asp	Leu	Phe	Ser	Val	Pro	Leu	
				725					730					735		
His	Val	Ser	Phe	Arg	Glu	Met	Arg	Asp	Ala	Met	Leu	Ala	Gly	Gln	Phe	
			740					745					750			
Thr	Leu	Ala	Ala	Pro	Leu	His	Ala	Val	Cys	Glu	Ala	Ile	Ser	His	Tyr	
		755					760					765				
Ser	Cys	Asp	Ile	Leu	Leu	Ile	Thr	Gly	Arg	Pro	Gly	Cys	Leu	Pro	Gly	
	770					775					780					
Val	Gln	Ala	Leu	Ile	Arg	His	Leu	Gln	Pro	Val	Pro	Val	Asn	Arg	Ile	
785					790											

Leu Ala Lys Ala Ile Ala Gly Asp Gly Val Leu Asn Val Arg Leu Lys
 930 935 940
 Leu Arg Gly Gly Thr Lys Gln Glu Gly Pro Glu Ser Phe Glu Leu Ser
 945 950 955 960
 Asp Ala Trp Leu Gln Asp Gly Thr Pro Val Pro Pro Asp Ala Leu Thr
 965 970 975
 Phe Lys Leu Asn Thr Leu Ala Asp Arg Arg His Ser Gly Ser His Tyr
 980 985 990
 Trp Ile Asp Ser Gly Ser Val Tyr Leu Lys
 995 1000

<210> 11058

<211> 657

<212> PRT

<213> Enterobacter cloacae

<400> 11058

Asn Ser Thr Phe Ser Cys Leu Ile Val Phe Ile Asn His Leu Phe Lys
 1 5 10 15
 Phe Ser Gln Leu Glu Val Tyr Ser Ser Phe Met Pro Val Thr Trp Leu
 20 25 30
 Thr Phe Leu His Leu Ala Asp Ser Leu Cys Phe Ala Ala Val Asp Tyr
 35 40 45
 Glu Gly Glu Pro Met Trp Ala Ala Asn Lys Glu Lys Ser Asn Pro Leu
 50 55 60
 Ser Ser Arg Gln Glu Val Val Ala Ser Leu Asn Ala Leu Leu Gln Ala
 65 70 75 80
 Leu Asp Thr Gln Phe Pro Ala Asn Arg Ser Arg Phe Pro Leu Gly Asp
 85 90 95
 Thr Cys Ala His Tyr Thr Ala Asp Ile Ala Gln Met Glu Gly Leu Ser
 100 105 110
 Arg Ala Leu Trp Gly Leu Phe Pro Leu Met Ala Ser Gly Glu Ser Thr
 115 120 125
 Pro Phe Ser Glu Lys Tyr Leu Thr Ala Ile Lys Leu Gly Thr Asp Pro
 130 135 140
 Gln Ser Ser Gly Tyr Trp Gly Glu Thr Gly Pro Tyr Asp Gln Arg Leu
 145 150 155 160
 Val Glu Met Ala Ala Tyr Gly Leu Gly Leu Ala Leu Met Gly Glu Thr
 165 170 175
 Leu Thr Ala Arg Phe Thr Gly Arg Glu Val Met Asn Leu His Ala Trp
 180 185 190
 Leu Asn Gln Ile Thr Glu Ala Gln Met Pro Asp Ser Asn Trp Asn Tyr
 195 200 205
 Phe Ala Ile Met Val Gln Leu Gly Phe Lys Arg Ala Gly Leu Pro Tyr
 210 215 220
 Asp Gln Asp Ala Ile Asp His Arg Phe Ala Leu Met Asp Ala Tyr Tyr
 225 230 235 240
 Leu Gly Asp Gly Trp Tyr Ser Asp Gly Pro Gly Arg Pro Lys Asp Tyr
 245 250 255
 Tyr Ile Ser Met Ala Phe His Phe Tyr Gly Leu Ile Tyr Ala Thr Leu
 260 265 270
 Ser Asn Asp Glu Ala Arg Ala Asn Val Leu Arg Glu Arg Ser Arg Leu
 275 280 285
 Phe Ala Glu Asp Phe Ile Tyr Trp Ser Ala Ala Asp Gly Ala Ser Val
 290 295 300
 Pro Phe Gly Arg Ser Leu Thr Tyr Arg Phe Ala Met Val Ala Phe Trp
 305 310 315 320
 Ser Ala Val Ala Phe Ser Gln Leu Asp Val Phe Thr Pro Gly Ile Val
 325 330 335
 Lys Gly Ile Val Leu Arg His Leu Arg Trp Trp Gln Gln Gln Ser Ile
 340 345 350

Val	Asp	Arg	Asp	Gly	Ile	Leu	Thr	Leu	Gly	Phe	Ala	Tyr	Pro	Asn	Leu
		355					360					365			
Ala	Met	Cys	Glu	Asp	Tyr	Asn	Ser	Pro	Gly	Ser	Pro	Tyr	Trp	Ala	Leu
	370					375					380				
Lys	Thr	Tyr	Leu	Ile	Leu	Ala	Leu	Pro	Glu	Ala	His	Pro	Phe	Trp	Gln
385					390					395					400
Ala	Glu	Glu	Gln	Pro	Leu	Pro	Ala	Leu	Asp	Glu	Lys	His	Val	Ile	Pro
				405					410					415	
His	Ala	Gln	Gln	Ile	Leu	Met	His	Ser	Lys	Asp	Ser	Gln	His	Val	Val
			420					425					430		
Met	Leu	Thr	Ala	Gly	Gln	Leu	Glu	Leu	Asn	Asn	Tyr	Val	Asn	Thr	Glu
	435						440					445			
Ala	Lys	Tyr	Thr	Lys	Phe	Ala	Tyr	Ser	Ser	Arg	Phe	Gly	Phe	Thr	Leu
	450					455					460				
Glu	Arg	Gly	Arg	Phe	Gly	Leu	Lys	His	Ala	Ala	Cys	Asp	Ser	Met	Leu
465					470					475					480
Leu	Leu	Ala	Asp	Gly	Asp	Asp	Tyr	Phe	Arg	Gly	Arg	Arg	Glu	Cys	Glu
			485						490					495	
Glu	Val	Arg	Val	Asp	Glu	Asn	Tyr	Ile	Phe	Ser	Arg	Trp	Ser	Pro	Trp
			500					505					510		
Arg	Asp	Val	Gln	Ile	Ala	Thr	Trp	Gln	Ile	Pro	Phe	Gly	Glu	Trp	His
	515						520					525			
Leu	Arg	Leu	His	Arg	Ile	Asn	Ser	Thr	Arg	Thr	Leu	Gln	Thr	Val	Glu
	530					535					540				
Gly	Gly	Phe	Ala	Val	Met	Lys	Thr	Ala	His	Gln	Val	Arg	Glu	Arg	Gly
545					550					555					560
Cys	Tyr	Leu	Leu	Ala	Glu	Asn	Gly	Ser	Ser	Val	Ile	Val	Asp	Leu	Ser
				565					570					575	
Pro	Ile	Ile	Gln	Arg	Gln	Pro	Asp	Ser	Ile	Val	Thr	Pro	Pro	Asn	Ser
			580					585					590		
Ser	Ile	Met	Phe	Ala	Glu	Cys	Ala	Ser	Ile	Pro	Leu	Leu	Lys	Ala	Asp
		595					600					605			
Leu	Pro	Gln	Gly	Glu	Ser	Trp	Leu	Cys	Cys	Ala	Val	Leu	Ala	Gly	Gly
	610					615					620				
Arg	Gln	Leu	Ala	Ala	Ala	Thr	Pro	Gln	Leu	Asn	Ile	Thr	His	Ser	Arg
625					630					635					640
Val	Val	Ile	Ser	Glu	Pro	Gly	Ser	Glu	Arg	Lys	Leu	Ser	Phe	Thr	Leu
				645					650					655	

<210> 11059

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 11059

Gln	Lys	Arg	Gln	His	Asp	Lys	Leu	Arg	Arg	Gln	Arg	Arg	Asn	Arg	Asn
1				5				10					15		
Met	Leu	Ser	Arg	Ile	Lys	Glu	Glu	Arg	Leu	Pro	Val	Ile	Ala	Ala	Pro
			20					25					30		
Val	Asp	Ser	Arg	Ala	Phe	Ser	Asp	Glu	Leu	Asn	Ser	Ala	Arg	Ser	His
	35						40					45			
Val	Leu	Asp	Leu	Ile	Ser	Arg	His	Leu	Thr	Glu	Phe	Gly	Asp	Lys	Phe
	50					55					60				
Pro	Ala	Glu	Thr	Cys	Gln	Asn	Gly	Phe	Tyr	Pro	Leu	Thr	Asp	Asn	Val
65					70					75					80
Glu	Trp	Thr	Thr	Ser	Phe	Trp	Thr	Gly	Gln	Leu	Trp	Leu	Ala	Trp	Glu
				85				90						95	
Met	Ser	Gly	Glu	Glu	Lys	Phe	Arg	Ala	Met	Ala	Glu	Lys	His	Val	Arg
			100					105					110		

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Ser Phe Gly Leu Arg Ile Ala Gly Arg Asn Asp Thr Asn Thr His Asp
    115                      120                      125
Leu Gly Phe Leu Tyr Thr Leu Ser Cys Val Ala Ala Trp Arg Leu Thr
    130                      135                      140
Gly Asn Arg Glu Ala Arg Gly Phe Ser Leu Leu Ala Ala Glu Ala Leu
145                      150                      155                      160
Leu Glu Arg Phe His Glu Lys Ala Lys Ile Ile Gln Ala Trp Gly Asp
    165                      170                      175
Leu Ser Asp Pro Glu Gln Ala Gly Arg Met Ile Ile Asp Cys Asn Met
    180                      185                      190
Asn Leu Pro Leu Leu Tyr Trp Ala Thr Glu Gln Thr Gly Asp Pro Arg
    195                      200                      205
Phe Ala Asp Ala Ala Lys Ala His Val Met Gln Ala Ala Thr Tyr Leu
    210                      215                      220
Ile Arg Asp Asp Ala Ser Thr Phe His Thr Tyr Tyr Met Asp Val Ala
225                      230                      235                      240
Thr Gly Ala Pro Arg Tyr Gly Asn Thr Gln Gln Gly Tyr Ala Asp Asp
    245                      250                      255
Ser Cys Trp Ser Arg Gly Gln Ala Trp Gly Ile Tyr Gly Phe Leu Leu
    260                      265                      270
Ser Tyr Ile Tyr Thr Gly Asp Glu Thr Met Ile Ala Leu Ser Lys Arg
    275                      280                      285
Leu Ala Asn Tyr Phe Leu Asn Arg Leu Pro Glu Asp Tyr Val Cys His
    290                      295                      300
Trp Asp Leu Ala Leu Val Gly Thr Asp Ala Leu Arg Asp Ser Ser Ser
305                      310                      315                      320
Ala Ala Ile Ala Val Cys Gly Leu Leu Glu Leu Val Lys His Leu Pro
    325                      330                      335
Val Thr Asp Pro Asp Arg Glu Arg Tyr Leu Glu Trp Ala Lys Gly Ile
    340                      345                      350
Met Ser Thr Leu Thr Lys His Tyr Leu Met Gly Lys Glu Glu Lys Gly
    355                      360                      365
Asn Gly Leu Leu Lys His Ser Val Tyr His Leu Ala Ser Asn Lys Gly
    370                      375                      380
Val Asp Glu Cys Ala Ser Trp Gly Asp Tyr Phe Tyr Val Glu Ala Leu
385                      390                      395                      400
Val Arg Phe Thr Gln Ser Trp Lys Leu Tyr Trp
    405                      410

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<210> 11060

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 11060

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Arg Leu Arg Leu Leu Val His Val Ala Gln Arg Asn Ser Met Lys Ile
1      5                      10                      15
Ala Cys Leu Gly Trp Gly Ser Leu Ile Trp Lys Ser Gly Ala Leu Pro
    20                      25                      30
Val Ala Gly Glu Trp Gln Thr Asp Gly Pro Ser Leu Pro Val Glu Phe
    35                      40                      45
Cys Arg Val Ser Asp Gly Gly Glu Leu Ala Thr Ala Ile Cys Met Asn
    50                      55                      60
Ala Pro Ala Val Pro Val Leu Trp Ala Trp Leu Glu Ala Thr Thr Leu
    65                      70                      75                      80
Ser Val Ala Cys Arg Ala Leu Arg Glu Arg Glu Ala Ile Pro Glu Asp
    85                      90                      95
Arg Cys Asp Gly Ile Gly Ser Leu Leu Ile Thr Gly Arg Asp Thr Gly
    100                      105                      110
Ile Leu Thr Thr Trp Ala Arg Glu Lys Gly Ile Glu Ala Ile Ile Trp
    115                      120                      125

```

Thr Gly Leu Pro Pro Arg Ser Ala Ser Gln Glu Gly Arg Val Pro Ala
 130 135 140
 Val Asp Glu Ala Ile Ala Tyr Leu Asp Gly Leu Ser Gly Glu Thr Arg
 145 150 155 160
 Ser His Ala Arg Asp Tyr Ile Cys Arg Val Pro Ala Gln Leu Asp Thr
 165 170 175
 Pro Tyr Arg Arg Ala Ile Lys Glu Val Leu Gly Trp
 180 185

<210> 11061
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11061
 Gly Arg Leu Pro Trp Arg His His Arg Gln Leu Thr His Leu Ser Arg
 1 5 10 15
 Asp Ile Pro Leu Ala Ile Pro Gly Asp Leu Asn Lys Lys Leu Gly Lys
 20 25 30
 Tyr Ala Arg Phe Arg Leu Asp Gly Asn Ile Ser Ala Gln Ile Leu Asp
 35 40 45
 Leu Leu Thr Arg Lys Glu Gln Pro Asn Ala Ala Val Phe Thr Phe Cys
 50 55 60

65

<210> 11062
 <211> 83
 <212> PRT
 <213> Enterobacter cloacae

<400> 11062
 Ser Cys Leu Ser Ser Ala Leu Ala Thr Val Ser Arg Trp Leu Arg Trp
 1 5 10 15
 Ala Gly Asp Ile Ser Ile Phe Gln Tyr His Asn Phe Ala Pro Gly Gln
 20 25 30
 Glu Ser Gly Lys Asn Gln Asp Asn Asp Lys Thr Glu Val Asn Asn Gln
 35 40 45
 Thr Gly Ile Ala Thr Leu Met Gln Pro Leu Gln Lys Arg Leu Phe Tyr
 50 55 60
 Asn Lys Gly Ile Val Leu His Thr His Ser Leu Ile Val Ala His His
 65 70 75 80
 Pro Ile

<210> 11063
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 11063
 Ser Gly Glu Thr Arg Gly Arg Gln Ala Leu Arg His Gly Lys Arg Val
 1 5 10 15
 Ser Gly Gly Trp Ala Ser Pro Ser Glu Arg Arg Ser Ser Cys Lys Arg
 20 25 30
 Asp Gly Tyr Gln Ala Leu His Glu Ser Ser Gly Val Ala Pro Ala Gly
 35 40 45
 Thr Ala Pro Pro Gly Lys Gln Glu Pro Tyr Arg Val Phe Glu Arg Ile
 50 55 60
 Ala Ala
 65

<210> 11064
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 11064
 Arg Leu Pro Gly Leu His Ser Pro Gln Gln Tyr Leu Asn Val Ala Lys
 1 5 10 15
 Leu Phe Ile Leu Cys Thr Leu Val Arg Pro Ala Phe Ser Cys Leu Lys
 20 25 30
 Pro Ser Phe Ser Ser Arg Asn Leu Tyr Leu Pro Leu Thr Ile Glu Thr
 35 40 45
 Asn Pro Ile Asp Ser Lys Ser Trp His Ala Tyr Tyr
 50 55 60

<210> 11065
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 11065
 Lys Leu Cys Asp Gly Ile Lys Phe Gly Gly Glu Met Arg Ser Asp Ala
 1 5 10 15
 Leu Thr Pro Thr Leu Ser His Gly Glu Arg Glu Lys Gly Thr Asn Arg
 20 25 30
 Arg Pro Gly Lys Ala Lys Pro Pro Pro Gly Lys Gly Leu Glu Ala Arg
 35 40 45
 Ile Tyr Arg Arg Arg Gln His Leu Gln Gln Pro Phe Ala Val Phe Pro
 50 55 60
 Ala Gln Ala Arg Val Gly Asp
 65 70

<210> 11066
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 11066
 Thr Thr Ser Arg Ser Gly Trp Ala Lys Thr Thr Gly Tyr Lys Met Ala
 1 5 10 15
 Arg Val Lys Thr Ser Leu Lys Leu Phe Gly Gly Asp Thr Val Val Val
 20 25 30
 Arg Cys Ser Glu Arg Cys Arg Ile His Leu Ile Ser Ser Lys Gly Gln
 35 40 45
 Lys Gln Ser Gln Ala Asp Ile Leu Thr Val Gln Asp Asp Lys Ala Trp
 50 55 60
 Leu Thr Val Pro Tyr Thr Gly Thr Trp Asp Val Leu Ile Asp Ser His
 65 70 75 80
 Ser Gln Ser Leu Glu His Ser Val Ser Tyr Val Ala Ala
 85 90

<210> 11067
 <211> 128
 <212> PRT
 <213> Enterobacter cloacae

<400> 11067
 Ile Met Lys Leu Thr Asn Arg Leu Lys Lys Lys Leu Leu Val Leu Asp
 1 5 10 15
 Gly Ile Asp Asn Asp Phe Ile Glu Tyr Gly Lys Glu Ile Thr Cys Pro

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<210> 11068
<211> 61
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 11069
<211> 76
<212> PRT
<213> Enterobacter cloacae
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<210> 11070
<211> 62
<212> PRT
<213> Enterobacter cloacae
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<400> 11070															
Lys	Pro	Thr	His	Gly	Gly	Tyr	Arg	Pro	Cys	Ala	Ala	Tyr	Gly	Glu	Lys
1				5					10					15	
Phe	Val	Glu	Asp	Thr	Pro	Trp	Gly	Val	Val	Ala	Gln	Ser	Val	Gly	Asn
			20					25					30		
Ser	Cys	Leu	Ile	Glu	Val	Arg	Asn	Thr	Ala	Leu	Phe	Leu	Gln	Lys	Pro
		35					40					45			
Arg	Asn	Ala	Gly	Asp	Glu	Lys	Leu	Ala	Leu	Pro	Leu	His			
	50					55					60				

<210> 11071
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 11071
 Gly Leu Pro Met Ile Glu Asn Leu Ile Cys Ile Lys Glu Lys Asp Leu
 1 5 10 15
 Leu Gln Trp Ala Cys Gly Glu Ser Asn Ile Leu Val Ser Val Pro Phe
 20 25 30
 Leu Ser Tyr Ala Leu Val Asp Leu Thr Arg Gln Leu Val Phe Val Leu
 35 40 45
 Ser Glu Pro Lys Pro Leu Ser Thr Val Leu Thr Ile Phe Asn Val Gln
 50 55 60
 Gly Glu Lys Leu Phe Trp Ser Ala Pro Pro Glu Gly Ala Thr Phe Tyr
 65 70 75 80
 Tyr Leu Thr Phe Asn Leu Ser Lys Glu Val Ile Val Val Cys Ser Tyr
 85 90 95
 Pro Ala Lys Lys Met Ala Gly Met Ile Gly Phe Ile Pro Gly Ile
 100 105 110

<210> 11072
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 11072
 Leu Met Lys Pro Leu Tyr Phe Leu Leu Phe Ala Leu Ser Pro Leu Ala
 1 5 10 15
 Ala Ala Glu Asn Ile Tyr Ala Pro Gly Gln Ala Ala Leu Lys Phe Asn
 20 25 30
 Gln Trp Tyr Ile Ala Gln Leu Asp Gln Asn Lys Pro Pro Val Leu Asn
 35 40 45
 Pro Asp Ile Met Asn Glu Tyr Val Ala Ser Gly Thr Ile Ala Ala Ile
 50 55 60
 Lys Glu Met Tyr Ser Gly Asp Ser Asn Asp Lys Asp Met Pro Asp Ala
 65 70 75 80
 Asp Met Phe Ile Lys Ala Gln Asp Trp Asp Asp Asp Trp Asn Gln Ile
 85 90 95
 Thr Val Leu His Ser Asp Phe Asp Ala Val Cys Thr Asn Val Tyr Val
 100 105 110
 Ala Phe Gly Lys Lys Gln Asp His Val Ile Ala Asp Cys Leu Val Glu
 115 120 125
 Glu Gln Gly Lys Trp Lys Val Arg Ser Ala Thr Leu Ile Lys
 130 135 140

<210> 11073
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 11073
 Val Gly Val Ile Thr Ala Lys Ser His Ala Gln Pro Ser Ser Thr Gly
 1 5 10 15
 Tyr Cys Ala Arg Tyr Val Thr Glu Ala Ile Arg Ala Gly Gly Arg Leu
 20 25 30
 Lys Ile Pro Asn Thr Arg Leu Ala Lys Asp Met Gly Arg Thr Leu Val
 35 40 45
 Asn Ala Gly Phe His Leu Val Tyr Asp Gln Pro His Ala Gly Asp Val
 50 55 60
 Ala Val Ile Gln Asn Ile Val Gly His Asp Ser Gly His Val Cys Ile

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<210> 11074
<211> 78
<212> PRT
<213> Enterobacter cloacae
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<210> 11075
<211> 225
<212> PRT
<213> Enterobacter cloacae
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225

<210> 11076
 <211> 83
 <212> PRT
 <213> Enterobacter cloacae

<400> 11076
 Cys Glu Val Ile Met Ser Asp Val Val Leu Leu Val Pro Asn Asp Trp
 1 5 10 15
 Val Ser Glu Lys Val Leu Ile Ala Val Thr Gly Leu Lys Pro Gly Thr
 20 25 30
 Ile, Leu Arg Ala Arg Lys Glu Cys Trp Met Val Gly Arg Glu Tyr Val
 35 40 45
 His Val Ser Pro Asp Gly Asn Pro Lys Pro Ser Ser Glu Cys Met Tyr
 50 55 60
 Asn Arg Lys Ala Val Asp Ala Trp Val Ala Ser Met Lys Asn Lys Gln
 65 70 75 80
 Pro Gly

<210> 11077
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 11077
 Ile Leu Ser Asn Arg Ala Gly Glu Cys Leu Ser Gly Ala Asn Ile Leu
 1 5 10 15
 Asn Ser Met Asn Lys Ile Trp Gln Ala Asp His Tyr Phe Phe Trp Arg
 20 25 30
 Val Val Asn Glu Lys Lys Thr Ser Phe Tyr Leu Arg Gly Tyr Ser Ala
 35 40 45
 Asp Gly Gly Asp Cys Arg Ser Gly Ala Gly Ser His Gln
 50 55 60

<210> 11078
 <211> 334
 <212> PRT
 <213> Enterobacter cloacae

<400> 11078
 Ala Ala Asn Leu Arg Ser Ala Asp Leu Ser Gly Gly Ala Val Arg Arg
 1 5 10 15
 Leu Leu Ile Ala Leu Leu Leu Leu Cys Ser Gly Gly Ser Trp Ala Ala
 20 25 30
 Cys Thr Val Ser Thr Val Asn Ala Ser Phe Gly Ser Val Thr Ser Phe
 35 40 45
 Ala Leu Ser Gly Thr Gly Glu Val Glu Thr Thr Gly Thr Leu Val Val
 50 55 60
 Thr Cys Asp Thr Val Leu Asn Leu Leu Thr Asn Asp Ser Val Thr Leu
 65 70 75 80
 Asn Tyr Thr Ser Ala Ser Val Phe Ala Asn Ser Arg Ala Thr Met Lys
 85 90 95
 Arg Thr Asp Asn Ala Ala Ile Thr Asp Val Ile Pro Thr Arg Leu Cys
 100 105 110
 Gly Ala Ser Gly Cys Gly Gly Asn Ser Glu Ile Gln Ile Ser Lys Ala
 115 120 125
 Tyr Thr Trp Ser Gly Asn Thr Leu Leu Gly Leu Leu Gly Ser Arg Arg
 130 135 140
 Tyr Asn Ile Pro Leu Tyr Phe Arg Thr Val Met Gly Gln Asn Val Thr
 145 150 155 160

Ala Gly Pro Tyr Gln Val Leu Leu Thr Phe Ser Ile Asn Tyr Asn Val
165 170 175
Cys Ala Val Gly Ala Val Gly Ala Cys Leu Thr Pro Gln Thr Gly Thr
180 185 190
Ala Thr Thr Ser Ile Leu Leu Asn Met Thr Val Thr Asn Asp Cys Ser
195 200 205
Thr Met Thr Thr Pro Asp Val Asn Phe Asn Ser Ala Pro Leu Val Gln
210 215 220
Asn Phe Pro Thr Val Ser Gln Ser Val Ala Val Thr Cys Thr Lys Gly
225 230 235 240
Ser Thr Tyr Thr Ile Gly Ile Asn Asn Gly Ala Asn Ala Leu Asn Asn
245 250 255
Val Arg Arg Met Val Ser Gly Ser Asn Phe Met Ser Tyr Asp Ile Tyr
260 265 270
Lys Glu Ala Thr Ser Asn Arg Trp Gly Ser Ser Gly Ser Glu Arg Trp
275 280 285
Ala Ser Ala Ser Ser Ser Gln Val Ser Thr Asp Gly Leu Leu Arg Thr
290 295 300
Tyr Asn Tyr Thr Ala Lys Val Leu Thr Ser Gln Ala Thr Pro Pro Ala
305 310 315 320
Gly Thr Tyr Thr Asp Thr Leu Ile Val Asp Val Ala Phe
325 330

<210> 11079

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11079

Lys Phe Ser Ala Thr Arg Cys Ser Ser Thr Thr Ala Asn Cys Leu Pro
1 5 10 15
Phe His Gln Ser Ser Gly Ile Ser Glu Gly Trp Leu Ala Lys Leu Thr
20 25 30
Phe Pro Phe Asp Thr Lys Glu Thr Leu Phe Tyr Lys Ser Val Thr Arg
35 40 45
Val Leu Thr Leu Phe Ala Phe Leu Pro Phe Thr Pro Leu
50 55 60

<210> 11080

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11080

Ile Thr Tyr Arg Val Asp Phe Val Asp Asp Pro His Leu Leu Thr Ser
1 5 10 15
Ser Asp Gln Leu Arg Val Glu Asn Lys Cys Thr Leu Val Ala Leu Ser
20 25 30
Ser Ala Val Phe Ala Gln Leu Asn Ile Asp Leu Met Leu Phe Ser Lys
35 40 45
Pro Gly His Phe Arg Leu Ile Pro Gln Asp Ala Asp Arg Arg Leu Asn
50 55 60
Glu Val Tyr His Ser Val Gly Thr Gly Leu Ser Phe Arg
65 70 75

<210> 11081

<211> 465

<212> PRT

<213> Enterobacter cloacae

<400> 11081

Ser	Arg	Arg	Arg	Lys	Met	Lys	Trp	Met	Asn	Ala	Val	Val	Tyr	Ala	Ala
1				5					10					15	
Leu	Leu	Ala	Met	Ala	Gly	Pro	Ala	Phe	Ser	Glu	Gly	Ala	Pro	Ala	Glu
			20					25					30		
Ser	Pro	Arg	Asp	Tyr	Ala	Tyr	Gly	Leu	Ser	Leu	Asp	Thr	Ser	Ala	Ser
		35					40					45			
Ser	Pro	Trp	Tyr	Arg	Val	Met	Leu	Pro	Leu	Ala	Ile	Tyr	Gln	Gln	Ser
	50					55					60				
Thr	Ser	Pro	Asp	Leu	Arg	Asp	Val	Arg	Val	Phe	Asn	Gln	Ser	Gly	Glu
65				70						75					80
Pro	Val	Pro	Phe	Ser	Leu	Val	Thr	Thr	Thr	Arg	Pro	Gln	Pro	Ala	Pro
				85					90					95	
Thr	Thr	Thr	Ala	Leu	Arg	Leu	Phe	Ala	Leu	Asn	Ala	Ser	Pro	Gly	Gly
			100					105					110		
Glu	Glu	Asp	Ser	Gly	Asp	Lys	Ile	Met	Leu	Arg	Ala	Arg	Asn	Gly	Val
		115					120					125			
Glu	Ile	Val	Leu	Glu	Gly	Gln	His	Ala	Ala	Ala	Ala	Gly	Gln	His	Tyr
	130					135						140			
Leu	Leu	Thr	Leu	Pro	Glu	Asn	Ala	Thr	Glu	Val	Pro	Leu	Ser	Gln	Leu
145					150					155					160
Gln	Leu	Phe	Trp	Asp	Thr	Pro	Gln	Gly	Ser	Trp	Gln	Gly	Thr	Ala	Ser
				165					170					175	
Val	Tyr	Tyr	Ser	Glu	Asp	Leu	Lys	Asn	Trp	Tyr	Thr	Leu	Arg	Glu	Glu
			180					185					190		
Met	Pro	Leu	Leu	Asp	Val	Met	Ser	Gly	Arg	Glu	Arg	Leu	Lys	Leu	Asp
		195				200						205			
Arg	Ile	Asp	Thr	Asp	Leu	Val	Leu	Ser	Pro	Glu	Ala	Asn	Arg	Tyr	Leu
	210				215						220				
Leu	Leu	Val	Leu	Asn	Thr	Gly	Arg	Ser	Ala	Leu	Thr	Leu	Thr	Gly	Val
225					230					235					240
Asn	Ala	Ile	Asn	Ala	Pro	Ala	Pro	Pro	Glu	Ser	Glu	His	Ile	Ser	Leu
				245					250					255	
Ala	Gly	Glu	Gly	Glu	Arg	Leu	Ser	Glu	Ser	Glu	Ala	Val	Trp	Arg	Trp
			260					265					270		
Lys	His	Pro	Gln	Pro	Leu	Ser	Ala	Ile	Ala	Phe	Met	Leu	Asn	Gly	Asp
		275					280					285			
Gly	Val	Leu	Pro	Ala	Glu	Ile	Ala	Trp	Arg	Gly	Ala	Asp	Lys	Asp	Arg
	290					295					300				
Trp	His	Thr	Leu	Lys	Lys	Glu	Val	Ile	Tyr	Gln	Leu	Gly	Gly	Lys	Thr
305					310					315					320
Ala	Glu	Pro	Val	Pro	Leu	Pro	Gly	Gly	Leu	Val	Glu	Ala	Val	Lys	Ile
				325					330					335	
Lys	Thr	Leu	Asn	Ala	Arg	Leu	Pro	Glu	Asn	Leu	Pro	Gly	Val	Ile	Gly
			340					345					350		
Gln	Arg	Val	Arg	Tyr	Asp	Leu	Val	Phe	Asn	Ala	Gln	Gly	Lys	Gly	Pro
		355				360						365			
Tyr	Leu	Leu	Ala	Trp	Gly	Asn	Gly	Ala	Ala	Lys	Pro	Ala	Ser	Val	Glu
	370					375					380				
Thr	Asp	Met	Leu	Ile	Pro	Thr	Glu	Leu	Arg	Lys	Thr	Tyr	Asp	Leu	Ala
385					390					395					400
Ala	Leu	Pro	Met	Ala	Asp	Thr	Leu	Glu	Pro	Val	Pro	Leu	Gly	Gly	Glu
				405					410					415	
Ala	Arg	Leu	Thr	Ala	Thr	Ser	Ala	Ala	Glu	Gln	Glu	Ser	Arg	Met	Lys
			420					425					430		
Thr	Leu	Met	Val	Trp	Gly	Val	Leu	Ile	Ala	Gly	Val	Met	Val	Leu	Ala
		435					440					445			
Gly	Met	Ala	Trp	Arg	Ile	Trp	Arg	Glu	Val	Lys	Lys	Asp	Gly	Ala	Ala
	450					455					460				

<210> 11082
 <211> 879
 <212> PRT
 <213> Enterobacter cloacae

<400> 11082

Arg	Ile	Val	Tyr	Gly	Glu	Gly	Gly	Asn	Met	Asp	Glu	Leu	Tyr	Ile	Leu
1				5				10						15	
Gly	Cys	Leu	Phe	Leu	Val	Phe	Ala	Leu	Val	Val	Ala	Pro	Val	Leu	Ala
		20					25						30		
Val	Ile	Gly	Phe	Asn	Arg	Ser	Thr	Ala	Ala	Arg	Gln	Glu	Ile	Ala	Arg
	35						40					45			
Leu	Arg	Gln	Arg	Ile	Glu	Ala	Leu	Glu	Gln	Arg	Ser	Val	Ala	Glu	Lys
	50					55					60				
Ala	Pro	Glu	Gln	Val	Gln	Thr	Ala	Ala	Pro	Val	Lys	Thr	Pro	Ala	Pro
65				70					75					80	
Val	Ser	Glu	Ala	Ala	Asn	Ala	Pro	Val	Asp	Pro	Trp	Arg	Pro	Glu	Pro
			85					90						95	
Pro	Val	Thr	Glu	Ala	Glu	Pro	Val	Pro	Val	Pro	Ala	Ala	Lys	Arg	Pro
		100					105						110		
Ser	Ala	Phe	Gly	Gly	Ile	Leu	Ser	Ser	Leu	Thr	Arg	Trp	Phe	Met	Gln
	115						120					125			
Gly	Asn	Pro	Leu	Ala	Lys	Leu	Gly	Ile	Val	Leu	Leu	Phe	Leu	Gly	Leu
	130					135					140				
Ser	Phe	Leu	Leu	Arg	Tyr	Thr	Val	Glu	His	Ser	Leu	Phe	Pro	Leu	Glu
145				150					155					160	
Leu	Arg	Leu	Ala	Ala	Thr	Ala	Leu	Phe	Ala	Met	Val	Leu	Leu	Ala	Val
			165					170						175	
Gly	Trp	Arg	Leu	Arg	His	Arg	Gln	Arg	Ile	Tyr	Ala	Leu	Ile	Leu	Gln
		180					185						190		
Gly	Gly	Ala	Thr	Gly	Val	Leu	Tyr	Leu	Thr	Val	Phe	Gly	Ala	Phe	Arg
	195						200					205			
Leu	Trp	Gln	Met	Leu	Pro	Met	Thr	Leu	Ala	Phe	Val	Leu	Leu	Val	Val
	210					215					220				
Ile	Cys	Ala	Ala	Ser	Val	Gly	Leu	Ala	Val	Leu	Gln	Lys	Ala	Leu	Ser
225				230					235					240	
Leu	Ala	Met	Leu	Ala	Ser	Leu	Gly	Gly	Tyr	Leu	Ala	Pro	Leu	Leu	Leu
			245						250					255	
Ser	Thr	Gly	Gly	Gly	Ser	Phe	Val	Ala	Leu	Phe	Ser	Phe	Tyr	Leu	Leu
		260					265						270		
Leu	Ser	Ile	Gly	Ile	Leu	Val	Ile	Ser	Ile	Trp	Gln	His	Trp	Arg	Glu
	275						280					285			
Leu	Asn	Leu	Leu	Gly	Leu	Leu	Phe	Thr	Phe	Gly	Val	Gly	Gly	Val	Trp
	290				295						300				
Gly	Leu	Ser	Asp	Tyr	Gln	Pro	Glu	Asp	Tyr	Val	Ile	Cys	Gln	Leu	Phe
305				310					315					320	
Leu	Ile	Ala	Asn	Thr	Leu	Ile	Phe	Gly	Val	Phe	Ser	Val	Ala	Leu	Ser
			325						330					335	
Leu	Arg	Ala	Gln	Glu	Lys	Gly	Lys	Gln	Ile	Ile	Asp	Gly	Val	Leu	Leu
		340					345						350		
Phe	Ala	Pro	Pro	Leu	Ile	Gly	Phe	Gly	Met	Gln	Tyr	Gly	Met	Thr	Ser
	355						360					365			
His	Trp	Thr	Tyr	Gly	Pro	Ala	Leu	Ser	Ala	Leu	Gly	Tyr	Gly	Ala	Phe
	370				375						380				
Tyr	Leu	Ser	Leu	Ala	Phe	Leu	Ala	Leu	Arg	Arg	Tyr	Pro	Ser	Ile	Gly
385				390					395					400	
Arg	Pro	Leu	Val	Met	Ala	Ala	Leu	Ala	Ile	Gly	Gly	Gly	Phe	Ala	Thr
			405						410					415	
Leu	Ala	Ile	Pro	Leu	Ala	Leu	Ser	Ala	Arg	Trp	Thr	Ala	Met	Ala	Trp
	420						425					430			
Ala	Leu	Glu	Gly	Leu	Gly	Ile	Leu	Trp	Leu	Gly	Val	Gln	Gln	Gln	Gln

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<210> 11083
<211> 73
<212> PRT
<213> Enterobacter cloacae
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<400> 11083

Thr Asp Leu Met Leu Tyr Ser Gly Pro His Ser Gly Gly Tyr Leu Trp
 1 5 10 15
 Leu Ser Ala Val Val Phe Thr Gly Gly Arg Asp Gly Ile Ala Arg Leu
 20 25 30
 Ala Phe Leu Glu Phe Thr Ala Ser Phe Leu Val Ala Val Gly Arg Gln
 35 40 45
 Lys Tyr Asp Thr Ser Ala Gly Lys Arg Glu Leu Gly Thr Ala Ser Leu
 50 55 60
 Arg Pro Ala Pro Asp Ala Asp Ala
 65 70

<210> 11084

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11084

Cys Asn Leu Arg Arg Ile Glu Leu His Leu Cys Ile Leu Ile Gln Arg
 1 5 10 15
 Asp Lys Met Cys Gly Gly Cys Leu Arg Leu Ser Val Leu Ser Ile Val
 20 25 30
 Glu Gly Gln Lys Val Glu Ser Pro Gly Lys Phe Ser Phe Thr Arg Gly
 35 40 45
 Tyr Ser Leu Asn Ser Asn Lys Leu Arg Val Ala Ser Tyr Ser Phe Phe
 50 55 60
 Asp Lys Glu
 65

<210> 11085

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 11085

Ser Ile Lys Arg Thr Ser Ala Arg Ile Arg Gly Gly Arg Leu Asn Asp
 1 5 10 15
 Pro Phe Pro Ser Pro Ala Gly Arg Gly Asn Cys Phe Lys Gly Val Thr
 20 25 30
 Met Lys Arg Ser Asp Ile Asn Glu Ile Leu Gly His Thr Arg Gln Phe
 35 40 45
 Phe Ser Met His Asp Val His Leu Pro Pro Phe Ala Ser Phe Pro Pro
 50 55 60
 Thr Lys Trp Gln Gln Leu Asp Gln Ala Ala Trp Gln Glu Val Phe Asp
 65 70 75 80
 Leu Arg Leu Gly Trp Asp Val Thr Ala Phe Gly Gly Asn Asn Phe Ala
 85 90 95
 Ala Gln Gly Leu Thr Leu Phe Thr Leu Arg Asn Gly Ser Pro Asn Gly
 100 105 110
 Val Pro Tyr Glu Lys Cys Tyr Ala Glu Lys Ile Leu His Val Arg Asp
 115 120 125
 Gly Gln Val Thr Pro Met His Phe His Trp Arg Lys Arg Glu Asp Ile
 130 135 140
 Ile Asn Arg Gly Gly Gly Asn Leu Ile Ile Glu Leu Trp Asn Ala Gly
 145 150 155 160
 Ala His Glu Glu Thr Glu Asn Thr Asp Val Thr Val Thr Val Asp Gly
 165 170 175
 Cys Arg Gln Thr His Ala Pro Gly Ser Gln Leu Arg Leu Thr Pro Gly
 180 185 190
 Glu Ser Ile Cys Leu Thr Pro Gly Leu Tyr His Ser Phe Trp Gly Glu
 195 200 205

Arg Gly Phe Gly Asp Val Leu Val Gly Glu Val Ser Ser Val Asn Asp
 210 215 220
 Asp Glu His Asp Asn His Phe Leu Gln Pro Ile Asp Arg Tyr Asn Thr
 225 230 235 240
 Ile Glu Glu Asp Glu Pro Ala Val Leu Val Leu Cys Asn Glu Tyr Asn
 245 250 255
 Leu Phe Arg Ile
 260

<210> 11086

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 11086

Gly Gln Phe Thr Cys Glu Ser Gly Leu Met Lys Arg Tyr Ser Thr Ala
 1 5 10 15
 Leu Leu Leu Gly Leu Leu Thr Leu Thr Ser Gln Leu Ala His Ala Asp
 20 25 30
 Val Ile Asp Asp Ala Ile Gly Asn Ile Gln Gln Ala Ile Asn Asp Ala
 35 40 45
 Tyr Asn Pro Ser Ser Ser Arg Asn Asp Asp Asp Asp Arg Tyr Asp
 50 55 60
 Arg Ser Arg Gln Ile Asp Ser Arg Gln Tyr Asp Asp Arg Arg Arg Gln
 65 70 75 80
 Leu Glu Asp Arg Arg Arg Arg Leu Asp Glu Arg Gln Arg Gln Leu Asp
 85 90 95
 Asp Asp Arg Arg Arg Leu Glu Glu Asp Glu Arg Arg Leu Glu Asp Asp
 100 105 110
 Tyr Asp Arg Gly
 115

<210> 11087

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 11087

Lys Ser Leu Pro Thr Ser Met Thr Leu Lys Val Glu Ser Ile Ala Ile
 1 5 10 15
 Phe Cys Lys Lys Cys Trp Thr Ser Ala Asn Glu Asn Asp Tyr Tyr Cys
 20 25 30
 Ser Ala Phe Arg Lys Thr Ser Tyr Gly Asn Leu Lys Ala Arg His Cys
 35 40 45
 Ser His Cys Phe Gln Tyr Tyr Phe Ser Gln Leu Leu Ala Gly Phe Phe
 50 55 60
 Phe Val Met Val Arg Leu Ser Asn Leu Arg Lys Arg Thr Glu Pro
 65 70 75 80

<210> 11088

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11088

Leu Asp Ala Val Asp Ala Gln Pro Val Val Ala His Ile Asn His Gly
 1 5 10 15
 Ala Asn Gln Arg Ala Gly His Ala Ala Val Met Pro Leu Cys Ala Asn
 20 25 30
 Ala Tyr Thr Glu Ile Gly Asn Val Ala Ala Ala Trp Ser Leu Gly Asp
 35 40 45

Ile Asn Gly Glu Val Ala Tyr His Asp Ile Ile Asn Ala Gly Asn Gln
 50 55 60
 Leu Phe Asn Ala Arg Leu Phe Ala
 65 70

<210> 11089

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 11089

Arg His Arg Gln Ala Leu Cys Pro Ala Gln Arg Arg Val Cys Gly Cys
 1 5 10 15
 Val Leu Tyr Gly Ala Asn Glu Val Val Cys Cys Arg Val Ala Ala Ser
 20 25 30
 Pro Tyr Pro Ala Tyr Val Arg Val Val Val Gly Pro Val Ser Ala Ala
 35 40 45
 Pro Pro Gly Asn Lys Ile Asn Thr Pro Pro Leu Asn His Pro Pro Asn
 50 55 60
 Ala Gly Pro Thr Arg Gln Thr Ala Arg His Pro Val Arg Pro
 65 70 75

<210> 11090

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 11090

Gly Cys Arg Gln Gln Arg Arg Gln Glu Asn Lys Gly Gly Gln Phe His
 1 5 10 15
 Glu Ser Gly Leu Arg Gln Thr Glu Ser Pro Asp Ser Val Pro Val Val
 20 25 30
 Ala Gln Lys Ser Arg Ile Lys Phe Tyr Ile Arg Asn Tyr Lys Leu Ile
 35 40 45
 Arg Trp Asp Asp Leu Leu Met Ser Arg Phe Glu Ser Val Ile Tyr Asp
 50 55 60

65

<210> 11091

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 11091

Leu Asn Arg Pro Pro Gly Met Ser Thr Val Lys Met Glu Asn Val Ile
 1 5 10 15
 Arg Lys Asn Lys Arg Ala Pro Phe Pro Val Pro Trp Gly Gln Cys Leu
 20 25 30
 Asn Leu Gln Ser Ser His Leu Ser Pro Gly Lys Asn Pro Asp Ala Val
 35 40 45
 Phe Thr Glu Cys Met Arg Leu Thr Gly Gln Leu Val Cys Asn Asn Phe
 50 55 60
 Leu Pro Gly Leu Leu Arg Val Asn Pro Val Ile Val Tyr Leu Thr Ala
 65 70 75 80
 Pro Trp Pro Ala Gly His Leu Cys Ile Lys Ala Trp Gln Gln
 85 90 95

<210> 11092

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 11092

Glu Asn Ser Thr Leu Asn Arg Gly Lys Met Lys Met Met Asn Thr Val
 1 5 10 15
 Leu Lys Ala Thr Leu Ile Thr Ala Leu Ile Ser Gly Pro Val Leu Ala
 20 25 30
 Val Asp Gly Thr Gly Lys Val Gln Leu Ser Asp Leu His Phe Ala Ser
 35 40 45
 Ala Ala Asn Gly Leu Gln Gln Ile Glu Gly Thr Gly Thr Asn Val Ser
 50 55 60
 Gly Gly Pro Val Lys Thr Val Ile Val Lys Phe Asn Leu Leu Gln Asn
 65 70 75 80
 Gly Ala Val Ile Gly Asn Thr Ala Ala Met Ala Glu Asn Leu Glu Pro
 85 90 95
 Gly Gln Gln Trp Lys Leu Gln Ala Pro Tyr Asp Ser Ile Thr Asn Lys
 100 105 110
 Pro Asp Ser Phe Lys Val Thr Glu Leu Thr Val Phe Asn Asn
 115 120 125

<210> 11093

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 11093

Arg Glu Ala Leu Asp Met Ser Asp Gly Lys Thr Lys Gly Gly Thr Thr
 1 5 10 15
 Ala Ser Arg Ala Gly Ala Leu Gln Ser Ser Val Asn Ile Leu Leu His
 20 25 30
 Thr His Tyr Ala Ile Arg Leu Trp Glu Gly Arg Lys Arg Asp Ala Pro
 35 40 45
 Asp Glu Thr Gly Val Lys Lys Lys Arg Pro Glu Ile Ile Ser Met Pro
 50 55 60
 Gln Ala Ile Ala Arg Ala Gly Asn Ala Ser Arg Asp Ser Ala Ala Asp
 65 70 75 80
 Asn Pro Tyr Ala Asp Met Ala Leu Val Arg Leu Glu Glu Ala Leu Gln
 85 90 95
 Arg Ala Thr Leu Lys Ile Asn Glu Asn Val Ser Ser Leu Asp Ala Ile
 100 105 110
 Leu Ser Ala Val Pro Lys Gly Val Thr Leu Ser Glu Val Glu Ser Ala
 115 120 125
 Asp Pro Leu Asn Val Ser Val Phe Ser Arg Ser Pro Leu Gly Tyr Arg
 130 135 140
 Cys Val Trp Leu Leu Val Gly Tyr Asp Gln Leu Ala Met Lys Ala Phe
 145 150 155 160
 Gln Ala Phe His Tyr Gly Leu Ile Ser Arg Ser Gln Arg Asp Ala Ile
 165 170 175
 Leu Asp Asn Gly Gly His Ala Val Arg Gln Val Tyr Gly Val Ile Gln
 180 185 190
 Pro Tyr Arg Thr Leu Ala Val Thr Arg Arg Asp Ile Ala Glu Lys Thr
 195 200 205
 Thr Gln Gly Leu Val Ala Ile Glu Arg Asn Gly Glu Pro Asp Pro Asp
 210 215 220
 Val Leu Ser Gly Lys Lys Arg Ser Ser Phe Ser Pro Pro Leu Lys Asn
 225 230 235 240
 Thr Ile Ala Glu Glu Glu
 245

<210> 11094

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 11094

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Pro Pro Thr Gly Asn His Ser Arg Gln Gly Arg Trp Phe Leu Arg Arg
1      5      10      15
Thr Tyr Phe Tyr Leu His Gly Glu Asn Ile Met Ser Ala Asn Asn Thr
20      25      30
Ser Ala Ser Ala Lys Ser Glu Tyr Phe Asn Leu Thr Ile Lys Gly Ile
35      40      45
Gly Tyr Leu Ser Asn Ile Arg Gln Val Asn His Gln Asn Gly Ser Phe
50      55      60
Leu Ser Cys Val Ile Asn Ala Leu Ser Gly Pro Thr Asp Asn Pro Ala
65      70      75      80
Tyr Val Arg Phe Asp Ile Ser Val Ala Gly Lys Glu Ala Thr Ser Leu
85      90      95
Ile Ala Arg Cys Gln Lys Ala Val Asp Glu Asp Lys Lys Val Leu Leu
100     105     110
Gly Phe Asn Leu Ser Asn Pro Ser Thr Asp Ile Phe Thr Leu Asn Lys
115     120     125
Gly Asp His Ala Gly Glu Gln Arg Val Ser Leu Lys Ala Arg Leu Ile
130     135     140
Lys Val Asp Trp Ile Lys Ile Gly Gln Glu Met Val Tyr Lys Thr Glu
145     150     155     160
Lys Ser Asp Ser Val Pro Pro Gln Asn Gly Ser Val Ala Gln Gln Asn
165     170     175
Tyr Ala Glu Asn Ser Phe
180

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<210> 11095

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 11095

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Gly Leu Phe Tyr His Cys Thr Gly Lys Ile Arg Met Lys Arg Asn Thr
1      5      10      15
Ser His Asn Val Phe Ser Pro Gly Arg Leu Ala Thr Val Leu Pro Leu
20      25      30
Leu Leu Leu Ala Gly Cys Val Ser Gln Pro Gln Lys Leu Gln Gln Arg
35      40      45
Ala Pro Ala Asp Pro Thr Pro Gly Thr Thr Val Thr Arg Asn Val Gln
50      55      60
Pro Val Ser Pro Asp Glu Tyr Ala Arg Thr Pro Glu Val Val Arg Tyr
65      70      75      80
Asp Arg Tyr Leu Leu Val Ser Thr Asp Pro Gln Ala Ala Gln Arg Asp
85      90      95
Pro Leu Ser Gln Ile Ile Asp Ile Arg Ile Pro Ser Ser Leu His Pro
100     105     110
Thr Val Val Asp Ala Leu Arg Tyr Ala Leu Arg Gln Ser Gly Tyr Ser
115     120     125
Leu Cys Ala Thr Gly Ser Ala Asn Gly Val Leu Tyr Arg Gln Ala Leu
130     135     140
Pro Ala Val Gln Tyr Gln Leu Gly Pro Met Arg Leu Arg Thr Ala Leu
145     150     155     160
Gln Val Leu Ala Gly Pro Ala Trp Gln Leu Glu Val Asp Asp Val Gln
165     170     175
Arg Val Val Cys His Ser Leu Arg Asp Gly Tyr Gln Leu Pro Val Ser
180     185     190
Gln Leu Pro Pro Pro Val Ser Thr Trp Ser Ala Pro Ala Pro Ser Ala
195     200     205

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Val Ser Gln Pro Ala Ile Ser Ala Pro Gln Ser Val Pro Val Lys Pro
 210 215 220
 Val Ser Gly Gly Phe Leu Arg Lys
 225 230

<210> 11096

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 11096

Met Gly Asn Arg Ser Val Leu Thr Gly Ala Leu Ala Leu Gly Leu Leu
 1 5 10 15
 Met Ala Ala Val Pro Asp Gly His Ala Asp Gln Thr Val Pro Glu Gly
 20 25 30
 Tyr Val Arg Val Ala Met Ala His Gly Val Pro Pro Glu Ala Leu Tyr
 35 40 45
 Ser Val Ser Leu Ser Glu Ser Ser Arg Lys Leu Pro Arg Gly Val Arg
 50 55 60
 Pro Trp Pro Trp Thr Ile Asn Val Ala Gly Lys Gly Tyr Arg Tyr Glu
 65 70 75 80
 Thr Arg Leu Gln Ala Trp Gln Ala Leu Gln Val Phe Met Lys Arg His
 85 90 95
 Ala Leu Lys Arg Ile Asp Val Gly Ile Ala Gln Val Asn Leu Gly Trp
 100 105 110
 Asn Gly His His Phe Ala Ser Thr Trp Glu Ala Phe Asp Pro Tyr Thr
 115 120 125
 Asn Leu Asn Ala Ala Ala Thr Ile Leu Arg Glu Cys Trp Ala Arg Lys
 130 135 140
 Pro Gly Ser Trp Leu Asp Ala Ala Gly Cys Tyr His His Pro Ala Gly
 145 150 155 160
 Gly Gln Pro Ala Ala Arg Tyr Arg Ala Ile Val Arg Arg His Leu Ala
 165 170 175
 Lys Ile Ser Pro Thr Pro Arg Ile Ser Ala Pro Ala Ala Glu Ala Pro
 180 185 190
 Arg Ser Val Ala Ala Leu Thr Pro Asp Pro Gly Phe Val Trp Thr Glu
 195 200 205
 Pro Gly Arg
 210

<210> 11097

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 11097

Thr Leu Ser Gln Glu Met Asn Ser Met His His Ser Glu Ser Val Val
 1 5 10 15
 Ala Arg Leu Arg Arg Phe Ala Ser Arg Thr Leu Thr Arg Ala Gly Thr
 20 25 30
 Leu Ala Leu Leu Gly Trp Leu Thr Cys Lys Pro Ala Phe Ala Asp Leu
 35 40 45
 Pro Ser Val Glu Ala Pro Glu Ser Gly Gly Gly Ser Gly Leu Ser Gly
 50 55 60
 Gln Ile Lys Gly Tyr Leu Gln Asp Gly Ile Val Ile Gly Gly Leu Val
 65 70 75 80
 Val Ala Ala Val Ala Phe Ile Asn Val Ala Ile Ala Ala Leu His Thr
 85 90 95
 Phe Thr Glu Val Arg Asn Glu Lys Ala Thr Trp Thr Lys Phe Gly Ala
 100 105 110
 Ile Val Val Val Gly Val Val Leu Leu Val Ala Val Ile Trp Leu Leu

<400> 11100
Arg Arg Phe Pro Met Lys His Ser Pro Gln Arg Asn Ala Ala Ile Leu

1				5					10				15		
Asn	Leu	His	Ala	Arg	Thr	Met	Gln	Ile	Asn	Gly	Thr	Val	Asp	Glu	Lys
			20					25					30		
Val	Glu	Gln	Leu	Arg	Lys	Met	Phe	Ala	Gln	Ser	Ser	Thr	Arg	Thr	Lys
		35					40					45			
Asp	Asp	Arg	Lys	His	Arg	Gly	Asp	Arg	Glu	Lys	Val	Tyr	Tyr	Glu	Gly
	50					55					60				

65

<210> 11101

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 11101

Phe	Val	Val	Pro	Asp	Ile	Glu	Phe	Asn	Ala	Ala	Phe	Leu	Ser	Asn	His
1				5				10					15		
Gly	His	Ala	Val	Arg	Arg	Phe	Ser	Leu	Thr	Glu	Ser	Arg	Phe	Met	Lys
		20					25					30			
Leu	Thr	Ser	Leu	Val	Phe	Leu	Pro	Ala	Leu	Leu	Pro	Ala	Ser	Leu	Leu
		35				40					45				
Ala	Gly	Thr	Val	Val	Phe	Thr	Asp	Ser	Gln	His	Leu	Pro	Ala	Asn	Leu
	50				55					60					
Pro	Pro	Asp	Val	Pro	Val	Val	Leu	Leu	Asp	Gly	Pro	Asp	Arg	Leu	Gln
65				70					75					80	
Ala	Asp	Met	Phe	Gly	Glu	Leu	Pro	Ala	Asp	Pro	Gln	Gln	Ala	Glu	Ala
			85					90					95		
Gln	Val	Arg	Gln	Val	Met	Thr	Ser	Pro	Ala	Trp	Gln	Gln	Lys	Gln	Leu
		100					105					110			
Gln	Leu	Asn	Asp	Ser	Tyr	Arg	Gln	Val	Val	Arg	Ala	Trp	Glu	Leu	Gly
	115					120					125				
Ile	Lys	Lys	Val	Pro	Ala	Val	Val	Phe	Asp	Asp	Arg	Asp	Val	Val	Tyr
	130				135					140					
Gly	Thr	Thr	Asp	Val	Ala	Val	Ala	Thr	Ser	Leu	Arg	Asn	Arg	Gly	Gly
145				150					155					160	
Gly	Gln														

<210> 11102

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 11102

Arg	Asp	Asp	Ser	His	Leu	Gly	Leu	Ser	Cys	Phe	Ile	His	Asp	Gly	Thr
1				5				10					15		
Glu	His	Phe	Arg	Asp	Met	Glu	Val	Ile	Glu	Gly	Asp	Phe	Phe	Tyr	Arg
		20					25					30			
Val	Arg	Gln	Val	Asp	Thr	Gly	Cys	Ala	Asp	Ile	Ser	Leu	Ile	His	Val
		35				40					45				
His	Arg	Gln	Gly	Phe	Asp	Gly	Phe	Asp	Leu	Thr	Val	Thr	Gln	Ala	Leu
	50			55						60					
Glu	Val	Thr	Arg	Gln	Ala	Phe	Asn	Pro	Ala	Ile	Ile	Pro	Glu	Leu	Gln
65				70					75					80	
Gly	Leu	Ser	Leu	Cys	Ile	Arg	Asp	Asn	Arg	Asp	Val	Leu	Met	Thr	Leu
			85				90						95		
Phe	Glu	Gly	Asp	Leu	Ile	Asn	Thr	Glu	Val	Thr	Cys				
		100					105								

<210> 11103

<211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 11103

Gln	Arg	Arg	Asn	Asp	Met	Ile	Arg	Pro	Val	Phe	Leu	Leu	Thr	Ser	Phe
1			5						10					15	
Phe	Leu	Leu	Ser	Gly	Cys	Ala	Thr	Thr	Asp	Trp	Ala	Ala	Ile	Asn	Lys
			20					25					30		
Gln	Val	Ser	Asp	Thr	Ala	Ala	Asn	Leu	Lys	Lys	Thr	Leu	Gly	Gly	Asn
		35					40					45			
Asp	Ser	Gly	Glu	Ser	Gly	Gly	Met	Pro	Leu	Met	Ser	Pro	Ala	Gly	Gln
	50					55					60				
Gln	Ala	Met	Lys	Ser	Val	Asp	Lys	Thr	Phe	Ser	Val	Pro	Val	Asp	Val
65					70					75					80
Asp	Thr	Ala	Ala	Ala	Arg	Leu	Lys	Arg	His	Tyr	Lys	Phe	Ile	Ser	Thr
			85						90					95	
Gln	Glu	Leu	Glu	Ala	Leu	Arg	Gln	Ala	Thr	Asn	Asp	Gly	Asp	Trp	Lys
			100					105					110		
Ala	Ala	Ala	Glu	Asp	Asp	Ala	His	Pro	Val	Trp	Asp	Ala	Met	Pro	Gly
		115					120					125			
Ser	Tyr	Tyr	Lys	Met	Gly	Ser	Asp	Trp	Asn	Gly	Arg	Asp	His	Leu	Asp
		130				135					140				
Ile	Glu	Ile	Glu	Lys	Asn	Gly	Ser	Gly	Ser	Arg	Leu	Tyr	Val	Val	Tyr
145					150					155					160
Arg	Ser	Ser	Ser	Ser	Gln	Arg	Leu	Ala	Gly	Ser	Gly	Val	Thr	Lys	Leu
				165					170					175	
Met	Asn	Asp	Val	Arg	Ala	Val	Ala	Ala	Gly	Glu	Lys	Arg			
			180					185					190		

<210> 11104
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 11104

Ser	Gly	Gln	His	Leu	Arg	Ile	Thr	Asp	Met	Pro	Val	Ile	Leu	Arg	Ile
1			5						10					15	
Asn	Gly	Phe	Arg	Phe	Phe	Phe	Tyr	Ser	Asn	Glu	Gly	Asn	Pro	Leu	Glu
			20					25					30		
Pro	Ala	His	Ile	His	Val	Met	Lys	Ala	Gly	Ser	Glu	Ala	Lys	Phe	Trp
		35					40					45			
Leu	Thr	Pro	Ser	Val	Val	Leu	Ala	Ser	Asn	Asp	Gly	Phe	Asn	Ser	Arg
		50				55					60				
Val	Leu	Lys	Glu	Leu	Thr	Gly	Ile	Val	Glu	Asp	Asn	Gln	Ala	Leu	Phe
65					70					75					80
Leu	Glu	Ala	Trp	Asn	Asp	Tyr	Phe	Ser							
				85					90						

<210> 11105
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 11105

Arg	Pro	Pro	Asp	Arg	Ala	Gln	Ser	Arg	Ile	Thr	Glu	Arg	Ile	Met	Lys
1			5						10					15	
Leu	Lys	His	Thr	Phe	Leu	Ala	Ala	Met	Leu	Leu	Ser	Pro	Pro	Thr	Leu
			20					25					30		
Ala	Ala	Thr	Thr	Ser	Gly	Gln	Thr	Asp	Val	Ser	Arg	Gln	Glu	Ser	Thr
		35					40					45			

Gln	Arg	Ala	Asp	Ser	Ala	Gln	Gln	Asn	Leu	Gln	Gln	Gln	Ala	Gly	Gln
50					55					60					
Trp	Gly	Leu	Ser	Thr	Asp	Tyr	Gln	Arg	Tyr	Gln	Gln	Leu	Met	Lys	
65				70					75					80	
Gly	Pro	Arg	Gly	Ile	Gln	Ser	Pro	Gly	Leu	Asp	Pro	Leu	Ser	Thr	Leu
			85					90						95	
Gly	Ile	Glu	Ala	Gln	Thr	Pro	Ala	Glu	Arg	Arg	Lys	Phe	Ala	Glu	Lys
			100					105					110		
Trp	Val	Lys	Glu	Glu	Phe	Ala	Arg	Thr	Gln	Lys	Glu	Leu	Asp	Phe	Gln
		115					120					125			
Arg	Glu	Val	Asn	Ala	Ala	Trp	Gln	Arg	Leu	Tyr	Pro	Gly	Thr	Leu	Pro
		130				135					140				
Val	Asn	Met	Gly	Asn	Ala	Ser	Gly	Val	Ala	His	Asp	Ser	Gly	Gly	Arg
145				150						155					160
Leu	Ala	Leu	Phe	Val	Arg	Ser	Lys	Asp	Cys	Ala	Thr	Cys	Asp	Ala	Lys
			165					170						175	
Leu	Ser	Ala	Val	Leu	Ala	Asp	Asn	Arg	Pro	Val	Asp	Ile	Tyr	Leu	Val
		180						185					190		
Asp	Ser	Gln	Gly	Ser	Asp	Asp	Ala	Leu	Arg	Ser	Trp	Ala	Arg	Asp	His
		195				200						205			
His	Ile	Pro	Val	Glu	Lys	Val	Arg	Lys	Arg	Gln	Ile	Thr	Leu	Asn	His
		210				215					220				
Asp	Gly	Gly	Arg	Trp	Met	Arg	Phe	Gly	Asn	Gly	Leu	Met	Pro	Val	Leu
225				230					235						240
Leu	Gln	Gln	Ala	Gly	Asp	Gly	Lys	Trp	Val	Ile	Ala	Ala	Phe		
				245					250					255	

<210> 11106

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 11106

Thr	Cys	Arg	Ser	Gln	Glu	Gly	Arg	Met	Ala	Glu	Val	Lys	Arg	Pro	Pro
1			5						10					15	
Gln	Gln	Gln	Thr	Leu	Pro	Glu	Arg	Lys	His	Gly	Ile	Leu	Tyr	Asn	Leu
		20					25						30		
Leu	Trp	Gly	Trp	Pro	Trp	Ala	Leu	Val	Gly	Val	Val	Leu	Ser	Ser	Leu
		35					40					45			
Leu	Leu	Ser	Leu	Leu	Ile	Glu	Tyr	Ile	Gly	Ile	Ala	Phe	Phe	Trp	Pro
		50				55					60				
Glu	Ala	Gly	Ala	Ala	His	Ser	Glu	Ala	Val	Met	Asn	Thr	Glu	Leu	Gly
65				70						75					80
Trp	Leu	Ser	Thr	Glu	Phe	Thr	Arg	Ser	Leu	Leu	Leu	Ser	Glu	Pro	Ser
			85					90						95	
Val	Thr	Val	Val	Arg	Trp	Val	Thr	Thr	Ala	Tyr	Gln	Trp	Ala	Phe	Val
			100					105					110		
Asp	Ser	Gly	Phe	Leu	Asp	Trp	Val	Arg	Gln	Gln	Tyr	Ala	His	Gln	Met
		115					120					125			
His	Ser	Asp	Asn	Ala	Val	Thr	Arg	Glu	Ile	Asn	Ser	Trp	Ser	Gly	Trp
		130				135					140				
Leu	Ala	Gly	Tyr	Leu	Arg	Glu	Tyr	Leu	Leu	Ala	Thr	Val	Trp	Ile	Ser
145				150						155					160
Ile	Ile	Thr	Leu	Val	Arg	Val	Thr	Ile	Leu	Val	Leu	Ser	Val	Pro	Leu
			165					170						175	
Phe	Val	Leu	Val	Val	Val	Val	Ala	Leu	Val	Glu	Gly	Leu	Gly	Arg	Arg
			180					185					190		
Asp	Leu	Arg	Arg	Tyr	Gly	Ala	Gly	Tyr	Glu	Ser	Ser	Phe	Val	Tyr	His
		195					200					205			
His	Ala	Lys	Lys	Leu	Val	Lys	Pro	Ala	Ala	Val	Val	Pro	Ala	Met	Leu
		210				215					220				

Tyr Leu Ser Trp Pro Thr Ala Val Tyr Pro Asn Leu Leu Leu Leu Pro
 225 230 235 240
 Ala Thr Val Leu Leu Gly Ile Ala Val Thr Val Thr Thr Ala Ser Phe
 245 250 255
 Lys Lys Tyr Leu
 260

<210> 11107
 <211> 88
 <212> PRT
 <213> Enterobacter cloacae

<400> 11107
 Leu Pro Ala Gly Ala Ala Leu Met Ser Met Thr Ser Glu Gln Thr Asn
 1 5 10 15
 Ala Phe Lys Ala Gly Ser Gly Ser Leu Asp Val Asn Ile Leu His Leu
 20 25 30
 Leu Cys Ile Gly Ala Leu Leu Ala Phe Leu Phe Leu Trp Ala Ala Trp
 35 40 45
 Ala Leu Ser Asp Val Trp Thr Gly Trp Ser Asn Thr Lys Val Arg Asp
 50 55 60
 Ala Ala Leu Gly Arg Phe Ala Val Arg Thr Val Leu Leu Leu Val
 65 70 75 80
 Cys Ile Trp Met Phe Ala Ser
 85

<210> 11108
 <211> 326
 <212> PRT
 <213> Enterobacter cloacae

<400> 11108
 Thr Gly Glu Val Arg Ser Val Ser Val Met Ser Lys Asn Pro His Tyr
 1 5 10 15
 Arg Ala Gly Leu Met Ala Leu Ser Phe Ala Leu Leu Pro Leu Ala Thr
 20 25 30
 Leu Val Ser Arg Pro Ala Gly Ala Asp Glu Leu Met Lys Trp Glu Arg
 35 40 45
 Ile Pro Leu Gln Ile Pro Leu Lys Val Gly Gln Glu Arg Val Val Phe
 50 55 60
 Val Asp Lys Asn Val Arg Val Gly Phe Pro Pro Thr Leu Asn Gly Lys
 65 70 75 80
 Leu Arg Val Gln Ser Thr Gly Gly Thr Val Tyr Leu Lys Ala Asp Ser
 85 90 95
 Ala Phe Pro Gln Thr Arg Val Gln Leu Gln Asp Val Glu Ser Gly Glu
 100 105 110
 Val Leu Leu Phe Asp Ile Ala Ala Gly Glu Lys Gly Pro Thr Glu Pro
 115 120 125
 Val Arg Leu Val Tyr Ser Gly Asp Val Ser Thr Leu Ser His Ala Gly
 130 135 140
 Asp Ala Ala Gly Gln Pro Gly Gly Ala Asp Arg Ala Ala Ser Gly Ser
 145 150 155 160
 Gly Ser Ser Ala Pro Thr Gly Ser Asp Asp Gly Thr Gln Ala Arg Arg
 165 170 175
 Lys Lys Ile Arg Tyr Ser Ala Pro Ile Pro Val Leu Leu Thr Arg Tyr
 180 185 190
 Ala Ala Gln Ser Leu Tyr Ala Pro Ala Arg Thr Val Glu Ala Val Pro
 195 200 205
 Gly Ile His Pro Val Asn Pro His Leu Pro Arg Arg Val Ser Thr Leu
 210 215 220
 Tyr Pro Ser Glu Pro Leu Thr Val Thr Pro Leu Ala Gly Trp Gly Val

225					230					235					240
Ala	Asn	Arg	Ser	Val	Val	Ala	Leu	Arg	Leu	Thr	Asn	Thr	Gly	Ser	Arg
				245					250					255	
Lys	Val	Val	Leu	Asp	Pro	Arg	Ala	Leu	Gln	Gly	Gln	Phe	Val	Ser	Ala
			260					265					270		
Thr	Phe	Gln	His	Arg	Trp	Val	Gly	Pro	Ala	Gly	Thr	Pro	Glu	Asp	Thr
		275					280				285				
Thr	Thr	Val	Tyr	Val	Val	Thr	Ala	Gly	Arg	Pro	Glu	Ser	Ala	Phe	Ile
	290					295				300					
Ala	Glu	Pro	Ser	Ala	Leu	Arg	Lys	Ala	Thr	Arg	Thr	Val	Lys	Gln	Glu
305					310					315					320
Ala	Arg	His	Ala	Asp											
				325											

<210> 11109

<211> 982

<212> PRT

<213> Enterobacter cloacae

<400> 11109

His	Ala	Cys	Ala	Gly	Leu	Gln	His	Arg	Val	Pro	Val	Leu	Gln	Pro	Asp
1				5					10					15	
Ala	Val	Cys	His	Ala	Trp	Arg	Ala	Tyr	Gly	Gly	Pro	Val	Met	Leu	Ser
			20					25					30		
Leu	Phe	Thr	Arg	Ser	Lys	Ser	Thr	Asp	Arg	Gln	Thr	Pro	Pro	Asp	Asp
		35					40					45			
Gly	Gln	Ser	Val	Gln	Ala	Asp	Glu	Thr	Leu	Thr	Ala	Val	Val	Lys	Gly
	50					55					60				
Arg	Gln	Pro	Leu	Lys	Arg	Pro	Gly	Lys	Met	Thr	Arg	Gln	Asp	Glu	Glu
65					70				75						80
Lys	Val	Tyr	His	Ala	Ser	Pro	Ser	Ile	Ile	Asp	Phe	Leu	Pro	Trp	Ala
			85					90						95	
Glu	Phe	Leu	Asp	Glu	Glu	Gln	Cys	Leu	Leu	Leu	Asp	Asp	Gly	Val	Ser
		100					105						110		
Val	Gly	Ala	Val	Tyr	Asp	Val	Thr	Pro	Val	Ala	Thr	Glu	Gly	Arg	Thr
	115					120						125			
Glu	Glu	Arg	Leu	Glu	Gln	Ile	Arg	Asp	Ser	Val	Glu	Asp	Ala	Leu	Gln
	130					135					140				
Asp	Ser	Phe	Asp	Glu	His	Asp	Val	Asn	Pro	Trp	Ile	Val	Gln	Phe	Phe
145					150				155						160
Cys	Gln	Asp	Glu	Asp	Asp	Thr	Asp	Ala	Tyr	Leu	Asp	Arg	Leu	Arg	Gly
			165					170						175	
Tyr	Val	Lys	Pro	His	Ala	Gln	Arg	Thr	Ala	Phe	Thr	Asp	Ala	Trp	Leu
		180					185						190		
Gly	Glu	Met	Glu	Arg	His	Ile	Arg	Ser	Ile	Ser	Arg	Pro	Glu	Gly	Leu
	195					200					205				
Phe	Thr	Asp	Ser	Leu	Ile	Thr	Gly	Gln	Pro	Trp	Arg	Gly	Gln	Gln	Arg
	210					215					220				
Arg	Thr	Arg	Met	Val	Val	Tyr	Arg	Trp	Leu	Gly	Lys	Ser	Arg	Asp	Pro
225				230					235						240
Met	Pro	Pro	Val	Ala	Met	Leu	Asn	Gln	Val	Cys	Asp	Arg	Val	Val	Asn
			245					250						255	
Ala	Leu	Gly	Gly	Ala	Gly	Ile	Arg	Cys	Thr	Arg	Gln	Asn	Gly	Leu	Gln
		260						265					270		
Val	His	Gly	Trp	Leu	Leu	Arg	Leu	Phe	Asn	Pro	Ser	Pro	Asp	Trp	Val
	275						280					285			
Glu	Lys	Thr	Thr	Leu	Tyr	Arg	Gln	Ala	Ala	Tyr	Ala	Asp	Pro	Arg	Glu
	290					295				300					
Thr	Pro	Glu	Gly	Thr	Val	Pro	Val	Ser	Asn	Asp	Phe	Ala	Glu	Thr	Leu
305					310				315						320
Trp	Phe	Thr	Pro	Pro	Val	Ser	Asp	Pro	Glu	Asn	Gly	Val	Trp	Trp	Ile

				325					330					335	
Asp	Asn	Lys	Pro	His	Cys	Ala	Val	Ala	Val	Glu	Lys	Leu	Arg	Thr	Pro
			340					345					350		
Pro	Glu	Pro	Gly	Thr	Leu	Thr	Gly	Glu	Lys	Ser	Arg	Gly	Glu	Lys	Lys
		355					360					365			
Ile	Asn	Ala	Leu	Met	Asp	Met	Phe	Pro	Glu	Gly	Thr	Met	Val	Cys	Met
	370				375						380				
Thr	Val	Val	Val	Gln	Pro	Gln	Asp	Arg	Leu	Glu	Gln	Phe	Asn	Arg	
385				390					395						400
Leu	Ser	Lys	Asn	Ala	Val	Gly	Glu	Asn	Thr	Glu	Ser	Gly	Arg	Val	Arg
			405					410						415	
Gln	Asp	Val	Lys	Thr	Val	Lys	Glu	Tyr	Leu	Gly	Asn	Arg	His	Lys	Leu
		420					425					430			
Tyr	Arg	Ala	Gly	Ile	Thr	Phe	Leu	Leu	Arg	Gly	Asp	Asp	Met	Thr	Ser
	435					440					445				
Leu	Lys	Arg	Lys	Arg	Leu	Glu	Leu	Ser	Thr	Val	Leu	Leu	Gly	Ala	Gly
	450					455					460				
Leu	Gln	Pro	Val	Arg	Pro	Glu	Phe	Glu	Glu	Gly	Pro	Leu	Asn	Ser	Trp
465				470					475						480
Leu	Arg	Ala	Leu	Pro	Met	Cys	Phe	Asn	Pro	Asp	Ser	Asp	Lys	Lys	His
			485					490					495		
Trp	Tyr	Thr	Arg	Leu	Thr	Trp	Val	Gln	His	Leu	Ala	Gly	Leu	Leu	Pro
			500				505					510			
Val	Thr	Gly	Arg	Glu	Thr	Gly	Thr	Gly	His	Pro	Gly	Phe	Ser	Phe	Phe
	515					520					525				
Asn	Arg	Gly	Gly	Asp	Thr	Leu	Thr	Phe	Asp	Pro	Leu	Asn	Lys	Leu	Asp
	530				535						540				
Arg	Thr	Gln	Asn	Ala	His	Leu	Leu	Leu	Phe	Gly	Pro	Thr	Gly	Ala	Gly
545				550					555						560
Lys	Ser	Ala	Thr	Leu	Cys	Ala	Ala	Leu	Ser	Gln	Leu	Met	Ala	Val	His
			565					570					575		
Arg	Pro	Arg	Leu	Phe	Ile	Ala	Glu	Ala	Gly	Asn	Ser	Phe	Gly	Leu	Leu
			580				585					590			
Ala	Asp	Phe	Phe	Asp	Ser	Leu	Gly	Leu	Thr	Val	Asn	Lys	Ile	Ser	Val
		595					600					605			
Lys	Pro	Gly	Ser	Gly	Val	Ser	Leu	Pro	Pro	Phe	Ala	Asp	Ala	His	Lys
	610				615						620				
Leu	Val	Glu	Glu	Gly	Leu	Ala	Ala	Gln	Ala	Val	Asp	Glu	Ser	Asp	Leu
625				630					635						640
Pro	Asp	Ile	Asp	Thr	Asp	Asp	Asp	Gly	Glu	Asp	Asp	Lys	Arg	Asp	Val
			645					650					655		
Leu	Gly	Glu	Met	Glu	Ile	Ser	Ala	Arg	Met	Met	Ile	Thr	Gly	Gly	Asp
			660					665					670		
Pro	Lys	Glu	Glu	Ala	Asp	Leu	Lys	Arg	Ala	Asp	Arg	Ala	Met	Ile	Arg

Asp Glu Ala His Ile Val Thr Val Asn Pro Leu Leu Ser Pro Tyr Met
 820 825 830
 Thr Lys Val Val Lys Met Trp Arg Lys Leu Gly Ala Trp Leu Trp Leu
 835 840 845
 Ala Thr Gln Asn Leu Lys Asp Tyr Pro Asp Ile Ala Glu Lys Met Leu
 850 855 860
 Asn Met Ala Glu Trp Trp Ile Cys Leu Thr Met Pro Pro Glu Glu Val
 865 870 875 880
 Lys Asp Ile Ser Arg Phe Arg Ala Leu Thr Pro Glu Gln Glu Ser Val
 885 890 895
 Leu Leu Ser Ala Ser Lys Leu Ser Gly Cys Tyr Thr Glu Gly Val Val
 900 905 910
 Leu Ala Lys Arg Ile Glu Ala Leu Phe Arg Ala Val Pro Pro Ser Leu
 915 920 925
 Phe Leu Ala Leu Gly Met Thr Glu Lys Glu Glu Lys Ala Glu Arg Arg
 930 935 940
 Ala Leu Met Asn Glu Phe His Cys Ser Glu Leu Glu Ala Ala Lys Arg
 945 950 955 960
 Val Ala Gln Asn Leu Asp Arg Leu Arg Gly Leu Thr Glu Lys Gln Gln
 965 970 975
 Glu Pro Ala Thr Val
 980

<210> 11110

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 11110

Thr Ala Leu Ser Met Lys Arg Leu Ser Ser Cys Ala Lys Cys Leu Leu
 1 5 10 15
 Arg Val Gln His Glu Leu Arg Met Thr Gly Ser Thr Val Gly Ile Glu
 20 25 30
 Lys Arg Tyr Ile Thr Lys Ala Glu Phe Ser Glu Asp Phe Val Lys Ala
 35 40 45
 Ser Glu Asp Phe Lys Tyr Gly Tyr Asp Val Ile Ser Lys Val Asn Val
 50 55 60
 Lys Thr Gly Gln Ser Ile Leu Arg Tyr Ala Val Arg Leu Gln Gln Lys
 65 70 75 80
 Trp Asn Asp Glu Asn Cys Ile Leu Ile Tyr Asp His Asp Asp Asp Lys
 85 90 95
 Leu Trp Gly Arg Val Lys Ala Ser Asp Ser Lys Asp Asp Ala Gly Ile
 100 105 110
 Ser Trp Tyr Leu Gly Phe Phe His Gly Arg Val Glu Ala Trp Lys Asn
 115 120 125
 Asp Pro Leu Ile Val Ile Ser Phe Arg Asp Glu Ile Ile Pro Ala Pro
 130 135 140
 Gln Gly Phe Asp Lys Gly Phe Glu Leu Ala Val Ile His Ala Ile Ser
 145 150 155 160
 Asp His Pro Thr Leu Phe Gly Glu Asn Trp Glu Lys Lys Leu Pro Glu
 165 170 175
 His Met Arg Glu Lys Arg Lys Gln Asn Ala His Thr Leu Asn Tyr Phe
 180 185 190
 Val Asp Val Asn Ser Ser Asp Ser Asp Gly Ser Pro Asp Glu Ser Ser
 195 200 205
 Pro Thr
 210

<210> 11111

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 11111

Val	Arg	Asp	Val	Tyr	Arg	Ser	Gly	Ser	Leu	Lys	Met	Thr	Thr	Asn	Ser
1				5					10					15	
Tyr	Leu	Glu	Tyr	Phe	Leu	Thr	Leu	Leu	Gly	Trp	Val	Ile	Asn	Asn	Gly
			20					25					30		
Leu	Trp	Asn	Val	Leu	Leu	Ser	Thr	Gly	Leu	Phe	Val	Leu	Pro	Leu	Ala
		35					40					45			
Phe	Lys	Val	Val	Gly	Ile	Trp	Leu	Arg	Val	Arg	Glu	Glu	Gly	Glu	Asp
	50					55				60					
Glu	Gly	Asn	Lys	Gly	Met	Leu	Ser	Leu	Pro	Arg	Ile	Glu	Asn	Ala	Leu
65					70					75					80
Tyr	Ala	Gly	Phe	Leu	Val	Met	Ile	Ala	Cys	Cys	Val	Pro	Leu	Ile	Asn
				85					90					95	
Val	Ser	Leu	Ser	Thr	Met	Gln	Tyr	Asp	Thr	Thr	Arg	Ala	Lys	Ser	Cys
			100					105					110		
Gly	Val	Trp	Thr	Pro	Lys	Ala	Pro	Asp	Glu	Ser	Gly	Tyr	Ala	Gly	Val
		115					120					125			
Val	Thr	Ser	Leu	Asn	Asp	Gln	Thr	Ala	Ala	Ala	Pro	Val	Trp	Trp	Val
		130				135					140				
Leu	Ile	His	Lys	Leu	Ser	Lys	Gly	Val	Thr	Gln	Ala	Ala	Val	Ala	Thr
145					150					155					160
Ile	Pro	Cys	Arg	Pro	Asp	Met	Arg	Gln	Ile	Arg	Phe	Glu	Val	Gln	His
				165					170					175	
Thr	Arg	Ile	Asp	Asn	Lys	Ala	Leu	Ala	Gln	Glu	Leu	Gln	Asp	Phe	Thr
			180					185					190		
Asn	Asp	Cys	Tyr	Ser	Val	Ala	Leu	Tyr	Leu	Trp	Lys	Gln	Gln	Asp	Gln
		195					200					205			
Gly	Gln	Thr	Lys	Asp	Lys	Thr	Thr	Leu	Arg	Asp	Ile	Glu	Trp	Ile	Gly
	210					215					220				
Ser	Ser	Thr	Phe	Leu	Ser	Arg	Tyr	Tyr	Pro	Ser	Leu	Gln	Ser	Lys	Leu
225					230					235					240
Pro	Arg	Ala	Ala	Phe	Pro	Trp	Thr	Asp	Ser	Arg	Asp	Ser	Gly	Arg	Pro
			245					250						255	
Asn	Thr	Gly	Arg	Gly	Gly	Tyr	Pro	Thr	Cys	Ser	Glu	Trp	Trp	Ser	Ser
		260						265					270		
Ser	Asp	Thr	Gly	Leu	Lys	Ala	Arg	Val	Lys	Asp	Gln	Ala	Asp	Pro	Asp
		275					280					285			
Met	Trp	Leu	Arg	Ile	Ser	Ala	Ala	Met	Lys	Met	Ser	Gly	Phe	Asn	Asp
	290					295					300				
Ser	Asp	Tyr	Gln	Glu	Ala	Val	Ile	Arg	Arg	Leu	Val	Ser	Pro	Glu	Ser
305					310					315					320
Leu	Thr	Val	Ser	Gln	Asn	Gly	His	Val	Tyr	Ala	Gly	Tyr	Gly	Gly	Asn
			325						330					335	
Ala	Asp	Phe	Thr	Leu	Asp	Asn	Ala	Ala	Arg	Val	Ala	Ala	Ile	Gly	
			340					345					350		
Gly	Thr	Ser	Leu	Gly	Ser	Leu	Ala	Ala	Phe	Pro	Ala	Phe	Asp	Ala	Met
		355					360					365			
Arg	Gln	Ala	Leu	Pro	Met	Val	Gln	Ala	Ile	Leu	Leu	Met	Ala	Ile	Tyr
	370					375					380				
Val	Met	Leu	Pro	Leu	Ile	Leu	Ala	Phe	Ala	Ala	Tyr	Glu	Phe	Lys	Thr
385					390					395					400
Val	Ile	Thr	Leu	Thr	Phe	Val	Ile	Phe	Ala	Leu	Asn	Phe	Leu	Thr	Phe
			405						410					415	
Trp	Trp	Glu	Leu	Ala	Arg	Trp	Leu	Asp	Ser	Trp	Leu	Leu	Thr	Ala	Leu
			420					425					430		
Tyr	Ser	Ser	Asp	Thr	His	Ser	Arg	Phe	Asn	Met	Ala	Gly	Leu	Gln	Asn
		435					440					445			
Ser	Ser	Asp	Asp	Leu	Ile	Met	Asn	Leu	Val	Met	Gly	Ala	Met	Phe	Ile
		450				455					460				

Val Leu Pro Ala Val Trp Leu Gly Ala Leu Ser Trp Ala Gly Ala Ser
 465 470 475 480
 Val Gly Val Ala Val Ser Ala Ala Phe Gln Lys Gly Thr Glu Thr Ala
 485 490 495
 Gln Asn Thr Gly Gly Lys Leu Gly Glu Ala Ala Gly Asn Ala Ile Gly
 500 505 510
 Ser Lys Ala Thr Lys Gly
 515

<210> 11112
 <211> 262
 <212> PRT
 <213> Enterobacter cloacae

<400> 11112
 Thr Cys Gln Arg Arg Val Ser Glu Lys Met Ser Glu Gln Gln Pro Phe
 1 5 10 15
 His Thr Asp Pro Ala Pro Ala Arg Lys Arg Phe Ser Trp Arg Pro Arg
 20 25 30
 Arg Arg Leu Ile Trp Gly Ala Ala Gly Gly Val Ala Leu Ala Gly Ile
 35 40 45
 Leu Ala Leu Gly Tyr Thr Ala Phe Ser Leu Gly Ile Ser Asp Leu Asp
 50 55 60
 Glu Arg Leu Thr Arg Leu Glu Ser Gln Gly Ser Thr Ala Ala Thr Val
 65 70 75 80
 Glu Thr Val Ala Ala Leu Gln Ser Asp Val Thr Thr Leu Arg Ala Gly
 85 90 95
 Leu Gln Asp Ser Gln Lys Lys Leu Gly Glu Met Gln Gln Glu Leu Ser
 100 105 110
 Ala Ala Ala Lys Gln Ala Gly Ser Asp Asp Ala Val Arg Gln Ser Leu
 115 120 125
 Arg Thr Leu Gln Asp Ala Gln Gln Gly Leu Glu Thr Arg Leu Ser Ala
 130 135 140
 Leu Thr Glu Gln Leu Thr Ala Leu Lys Ser Gln Pro Ala Pro Ala Pro
 145 150 155 160
 Ala Ala Pro Val Ala Ala Pro Val Lys Lys Asn Ala Pro Ala Ala Lys
 165 170 175
 Lys Pro Arg Pro Ala Asp Thr Arg Arg Ala Ala Pro Ser Leu Arg Met
 180 185 190
 Ala Arg Asn Ala Pro Phe Val Leu Thr Gly Val Glu Lys Arg Gly Ala
 195 200 205
 Glu Ser Trp Ala Ala Ile Ala Pro Arg Gly Tyr Ser Ser Leu Ser Gln
 210 215 220
 Val Ala Leu Val Gly Glu Gly Glu Thr Val Ala Gly Trp Thr Leu Val
 225 230 235 240
 Ser Ala Gly Tyr Gly Glu Ala Thr Phe Arg Val Asn Gly Arg Leu Thr
 245 250 255
 Val Leu Arg Ala Glu
 260

<210> 11113
 <211> 180
 <212> PRT
 <213> Enterobacter cloacae

<400> 11113
 Thr Arg Glu Ile Thr Leu Met Lys Thr Leu Ser Leu Leu Leu Phe Thr
 1 5 10 15
 Leu Leu Pro Leu Thr Gly His Ala Glu Leu Asn Val Ile Ala Asp Leu
 20 25 30
 Gly Gly Glu Asp Ala Ala Pro Tyr Phe Glu Ala Val Asn Lys Gln Pro

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<210> 11114
<211> 179
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 11115
<211> 135
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 11115
Pro Asp Ala Ser Ser Ser Ala Ser Cys Pro His Pro Leu Ile Leu Leu
1          5          10          15
Glu Val Arg Met Asn Ser His Arg Pro Ala Met Arg Arg Asn Arg Arg
          20          25          30

```


Val Pro Gly Ile Thr Gly Leu Val Leu Leu Thr Phe Leu Ala Ser Ala
 35 40 45
 Val Ala Gln Ala Ser Glu Lys Asp Glu Leu Ala Ser Val Gln Arg Gln
 50 55 60
 Leu Asp Gln Val Gln Ala Ser Leu Glu Arg Ala Arg Val Ala Ala Ala
 65 70 75 80
 Gln Ala Asp Pro Ala Asp Arg Gly Arg Phe Phe Phe Asp Tyr Arg Gln
 85 90 95
 Ala Thr Ser Asp Leu Asn Thr Ile Arg Ser Gly Ile Asp Arg Tyr Leu
 100 105 110
 Glu Pro Ser Arg Ala Gln Pro Arg Asp Pro Ser Tyr Val Ala Gly Asn
 115 120 125
 Tyr Arg Arg Glu Arg Pro
 130 135

<210> 11116

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 11116

Gln Glu Ser Phe Met Ser Arg Phe Arg His Ala Val Lys Asp Arg Asp
 1 5 10 15
 Gln His Ile Gln Thr Leu Arg Ile Ala Cys Ala Val Leu Ala Phe Phe
 20 25 30
 Leu Leu Phe Thr Cys Ala Gly Trp Met Leu Ala Pro Ser Lys Leu Thr
 35 40 45
 Val His Asn Pro Pro Asp Leu Arg Thr Gly Ser Thr Arg Pro Trp Trp
 50 55 60
 Glu Val Pro Pro Pro Thr Val Tyr Ser Phe Ala Phe Tyr Ile Phe Gln
 65 70 75 80
 Gln Leu Asn Ala Trp Pro Lys Asn Gly Glu Val Asp Tyr Ser Ala Lys
 85 90 95
 Ile Asn Ala Leu Ser Pro Tyr Leu Thr Pro Ser Cys Gln Asp Phe Leu
 100 105 110
 Lys Ala Asp Ala Lys Lys Arg Gly Asp Ala Gly Glu Leu Thr Asp Arg
 115 120 125
 Val Arg Val Val Tyr Glu Val Pro Gly Arg Gly Tyr Gln Ser Gln Ser
 130 135 140
 Val Thr Val Gln Asp Arg Asp His Trp Ile Ala Arg Leu Asp Val Val
 145 150 155 160
 Ala Asp Glu Tyr Phe His Ala Glu Pro Val Lys Arg Ala Leu Val Arg
 165 170 175
 Tyr Pro Leu Lys Val Val Arg Trp Glu Gly Asp Ala Glu Arg Asn Pro
 180 185 190
 Phe Gly Leu Ala Leu Asp Cys Tyr Ala Gly Val Pro Gln Arg Leu Glu
 195 200 205
 Ala Ala Pro Pro Ala Pro Lys Pro Glu Lys Ser Gly Val Phe Gln
 210 215 220

<210> 11117

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 11117

Arg Asp Pro Cys Val Phe Cys Gly Ser Val Ala Ala Thr Arg Ser Ala
 1 5 10 15
 Val Ala Cys Arg Arg Thr Phe Thr Ala Leu Ala Arg Trp Pro Ala Phe
 20 25 30
 Thr Gly Tyr Trp Gln Val Leu Pro Ala Ala Gln Cys Pro Gly Val Cys

```
<210> 11118
<211> 336
<212> PRT
<213> Enterobacter cloacae
```

<400>	11118														
Pro	Gly	Arg	Trp	Ser	Val	Met	Thr	Thr	Pro	Ser	Arg	Ile	Arg	Thr	Thr
1				5					10					15	
Val	Cys	Ser	Leu	Ala	Val	Ala	Thr	Leu	Leu	Gly	Thr	Ala	Thr	Ala	Pro
			20					25					30		
Ala	Ala	Val	Ala	Ala	Leu	Asn	Thr	Ala	Gln	Ile	Ile	Ala	Ser	Ala	Val
			35				40					45			
Ser	Gln	Asn	Cys	Ile	Ser	Trp	Arg	Val	Ser	Gly	Ile	Cys	Tyr	Trp	Leu
	50					55					60				
Phe	Cys	Thr	Pro	Phe	Gly	Cys	Lys	Val	Arg	Thr	Ser	Val	Lys	Val	Thr
65					70					75					80
His	Phe	Ile	Pro	Gln	Thr	Val	Val	Ser	Thr	Tyr	Val	Ala	Pro	Gly	Gly
				85					90					95	
Asn	Pro	Trp	Gln	Glu	Met	Ala	Phe	Val	Ser	Gln	Thr	Ala	Gly	Gly	Leu
			100					105					110		
Glu	Ser	Ala	Val	Thr	Ser	Gly	Leu	Ser	Gly	Val	Ser	Ala	Gly	Gly	Ala
			115				120					125			
Asn	Pro	Ala	Asp	Met	Lys	Asn	Pro	Gly	Gln	Arg	Lys	Ser	Ala	Val	Arg
	130					135					140				
Phe	Lys	Tyr	Ala	Asp	Ala	Ile	Gly	His	Pro	Ala	Thr	Ser	Leu	Ile	Gly
145				150						155					160
Gly	Ser	Ile	Pro	Gly	Tyr	Ser	Cys	Asp	Thr	Ala	Ala	Thr	Pro	Leu	Met
				165					170					175	
Pro	Tyr	Phe	Leu	Ser	Thr	Leu	Asp	Ser	Ala	Ala	Trp	Arg	Thr	Gly	Val
			180					185					190		
Pro	Glu	Ser	Leu	Tyr	Pro	Glu	Ala	Leu	Val	Pro	Gly	Gln	Arg	Glu	Ile
			195				200					205			
Gly	Ser	Gln	Ala	Ala	Ala	Asn	Met	Trp	Gly	Asn	Val	Tyr	Pro	Arg	Ser
	210					215					220				
Gly	Phe	Val	Ser	Gln	Thr	Asp	Asp	Asp	Lys	Ala	Ser	Ala	Val	Val	Ala

225					230					235				240	
Gln	Arg	Val	Ala	Asp	Ile	Ile	Thr	Arg	Val	Gly	Gln	Pro	His	Val	Tyr
				245					250					255	
Gln	Val	Leu	Lys	Gly	Asn	Arg	His	Asp	Gly	Tyr	Trp	Pro	Pro	Gly	Glu
			260					265					270		
Val	Thr	Glu	Asn	Thr	Gly	Thr	Arg	Asn	His	Lys	Trp	Gln	Arg	Leu	Ala
		275					280					285			
Pro	His	Met	Thr	Gln	Ser	Cys	Ala	Val	Phe	Pro	Asp	Gly	Ser	His	Thr
		290				295				300					
Ala	Ala	Ser	Asp	Asn	Asn	Glu	Ala	Phe	Ala	Leu	Trp	Gln	Pro	Tyr	Ser
305					310					315					320
Cys	Cys	Lys	Lys	Arg	Gly	Gln	Lys	Phe	Leu	Gly	Ser	Thr	Asp	Ile	
				325					330					335	

<210> 11119

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11119

Lys	Leu	Phe	Ser	Ser	Phe	Phe	Ser	Leu	Lys	Leu	Phe	Ile	Glu	Ala	Ser
1			5					10					15		
Leu	Glu	Leu	Asp	Pro	Ile	Cys	Val	Met	Ala	Ala	Ile	Lys	Val	His	Asn
			20					25				30			
Lys	Thr	Ala	Leu	Gln	Leu	Ile	Lys	Lys	Pro	Pro	Ala	Ile	Ser	Ala	Thr
		35					40					45			
Asn	Glu	Gln	Arg	Thr	Ala	Lys	Ser	Ser	Gly	Met	Trp	Pro	Asn	His	Phe
	50					55				60					
Gly	Ser	Leu	Tyr	Cys	Leu	Ala	Ser	Met	Thr	Gln	Arg				
65					70					75					

<210> 11120

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11120

Arg	Asp	Tyr	Ser	Gly	Phe	Phe	Glu	Gln	Leu	Leu	Ile	Thr	Ala	Ser	Val
1			5					10					15		
Leu	Arg	Val	Thr	Asn	Lys	Phe	Ser	Asn	Ile	Ile	Gly	Leu	Ile	Phe	Phe
			20					25				30			
Asn	Ala	Leu	Arg	Leu	Val	Ile	Ile	Lys	Lys	Ala	Ser	Leu	Tyr	Cys	Ala
		35					40					45			
Tyr	Met	Gly	Leu	Pro	Arg	Ser	Trp	Trp	Glu	Thr	His	Asn	Pro	Met	Phe
	50					55					60				
Asn	Leu	Pro													
65															

<210> 11121

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11121

His	Lys	Tyr	Ile	Leu	Ile	Phe	Lys	Asn	Gln	Ile	Ser	Met	His	Asn	Tyr
1			5					10					15		
Ser	Ile	Tyr	Phe	Pro	Cys	Val	Thr	Ala	Ser	Leu	Leu	Ser	Gln	Gln	Leu
			20					25				30			
Lys	Leu	Thr	Phe	Leu	Gln	Leu	Ala	Tyr	Lys	Lys	Tyr	Arg	Gly	Ile	Val
		35					40					45			
Tyr	Ala	Met	Asp	Asn	Lys	Ser	Asn	Ser	Asp	Pro	Ser	Phe			

50

55

60

<210> 11122

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11122

Cys	Phe	Ile	Ser	Ile	Phe	Ser	Thr	Glu	Lys	Asp	Phe	Lys	Lys	Asn	Phe
1				5					10					15	
Ile	Asn	Ser	Trp	Leu	Cys	Pro	Leu	Ile	Gln	Ile	Thr	Pro	Ser	Gln	Asn
			20					25					30		
Tyr	Leu	Leu	Gln	Gly	Met	Ser	Leu	Asp	Trp	Pro	Tyr	Lys	His	Gln	Arg
		35					40					45			
Leu	Pro	Leu	Gly	Ala	Val	Phe	Leu	Thr	Thr	Thr	Ala				
	50					55					60				

<210> 11123

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 11123

Arg	Ser	Ser	Ala	Thr	Phe	Leu	Met	Lys	Arg	Pro	Gly	Cys	Ser	Pro	Phe
1				5					10					15	
Thr	Ser	Lys	Ser	Arg	Lys	Thr	Thr	Phe	Lys	Glu	Gln	His	Met	Glu	Gln
			20					25					30		
Ile	Thr	Val	Val	Ile	Gly	Asp	Arg	Leu	Gly	Lys	Gly	Gln	Lys	Val	Ala
		35					40					45			
Ala	Gly	Val	Glu	Lys	Ala	Gly	Gly	Arg	Ala	Val	Val	Val	Pro	Gly	Met
	50					55					60				
Ala	Ala	Asp	Met	Lys	Leu	Gly	Asp	Val	Met	Lys	Ala	Glu	Asn	Ala	Thr
65					70				75					80	
Phe	Gly	Ile	Ser	Phe	Cys	Gly	Ser	Gly	Gly	Ala	Gly	Ala	Ile	Thr	Ala
				85				90						95	
Gln	Thr	Lys	Tyr	Gly	Tyr	Lys	Ala	Lys	Tyr	Gly	Met	Arg	Ser	Val	Asp
		100						105					110		
Glu	Gly	Val	Thr	Ala	Ile	Asn	Glu	Gly	Cys	Asn	Val	Leu	Gly	Phe	Gly
		115					120					125			
Phe	Met	Asp	Lys	Glu	Glu	Leu	Gly	Glu	Arg	Leu	Val	Gln	Ala	Trp	Gln
	130					135					140				
Lys	Lys	Tyr	Gly	Ala											
145						150									

<210> 11124

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 11124

Lys	Gly	Arg	Leu	Met	Phe	Leu	Ile	Ile	Leu	Ile	Lys	Ser	Leu	Ile	Ile
1				5					10					15	
Gly	Gly	Leu	Val	Gly	Val	Gly	Val	Gly	Ala	Gly	Ala	Ala	Arg	Met	Phe
			20					25					30		
His	Ala	Pro	Thr	Thr	Gln	Gly	Met	Gly	Ala	Phe	Arg	Thr	Leu	Gly	Glu
		35					40					45			
Leu	Asn	Ser	Cys	Glu	Gly	Asp	Pro	Ala	Ser	His	Phe	Ser	Phe	Gly	Leu
	50					55					60				
Gly	Phe	Phe	Phe	Asn	Ala	Trp	Ala	Ser	Ser	Val	Ala	Ala	Gly	Ala	Phe
65				70						75				80	
Thr	Gln	Asp	Val	Asp	His	Arg	Ile	Ile	Pro	Asn	Trp	Gly	Ala	Ala	Ala

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<210> 11125
<211> 214
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 11126
<211> 256
```

<212> PRT

<213> Enterobacter cloacae

<400> 11126

```

Arg Ser Ile Arg Thr Gly Glu Lys Arg Met Lys Leu Thr Pro Asn Phe
1      5      10      15
Tyr Arg Asp Arg Val Cys Leu Asn Val Leu Ala Gly Ser Lys Ala Asn
20      25      30
Ala Ser Ala Ile Tyr Glu Ala Ala Glu Gly His Val Leu Val Gly Val
35      40      45
Leu Ser Lys Asn Tyr Pro Asp Val Ala Ser Ala Val Ala Asp Met Arg
50      55      60
Glu Tyr Ala Lys Leu Ile Asp Asn Ala Leu Ser Val Gly Leu Gly Ala
65      70      75      80
Gly Asp Pro Asn Gln Ser Ala Met Val Ser Glu Ile Ser Arg Gln Val
85      90      95
Gln Pro Gln His Val Asn Gln Val Phe Thr Gly Val Ala Thr Ser Arg
100     105     110
Ala Leu Leu Gly Gln Asn Asp Ser Val Val Asn Gly Leu Val Ser Pro
115     120     125
Thr Gly Thr Val Gly Met Val Lys Ile Ser Thr Gly Pro Leu Ser Ser
130     135     140
Asn Ala Pro Asp Gly Ile Val Pro Val Glu Thr Ala Ile Ala Leu Leu
145     150     155     160
Lys Asp Phe Gly Gly Ser Ser Ile Lys Tyr Phe Pro Met Gly Gly Leu
165     170     175
Lys Cys Arg Asp Glu Tyr Gln Ala Val Ala Glu Ala Cys Ala Arg His
180     185     190
Asp Phe Trp Leu Glu Pro Thr Gly Gly Ile Asp Leu Glu Asn Phe Glu
195     200     205
Ala Ile Leu Gln Ile Ala Leu Asp Ala Gly Val Ser Lys Ile Ile Pro
210     215     220
His Ile Tyr Ser Ser Ile Ile Asp Lys Ala Ser Gly Asp Thr Arg Pro
225     230     235     240
Glu Asp Val Arg Thr Leu Leu Ala Met Thr Lys Lys Leu Val Lys
245     250     255

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<210> 11127

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 11127

```

Ile Asn Leu Cys Thr Leu Gly Lys Tyr Glu Val Leu Val Tyr Ser His
1      5      10      15
Trp Ala Ser Lys Phe Ala Leu Arg Thr Val Gly Pro Ile Val Ala Pro
20      25      30
Gln Glu Arg Met Ile Arg Arg Arg Tyr Lys Asn Glu Asn Phe Pro Thr
35      40      45
Leu Gln Pro Ala Ser Gly Gly Glu Val Arg Glu Asp Pro Val Pro Trp
50      55      60
Thr Val Val His Gln Gly Cys Trp Arg Phe
65      70      75

```

<210> 11128

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 11128

```

Leu Leu Ala Glu Lys Gly Ser Arg Tyr Ala Trp Lys Ile Asn Gly Ile

```

1				5					10				15
Ile	Met	His	Arg	Asp	Leu	Val	Phe	Lys	Asn	Lys	Asn	Ile	Phe
			20					25				30	
Phe	Met	Leu	Ala	Thr	Ile	Gly	Tyr	Gly	Ile	Trp	Arg	Met	Leu
		35					40					45	
Phe	Phe	Tyr	Leu	Glu	Gln	Thr	Ile	Val	Tyr	Arg	His	Ala	Val
	50					55					60		
Lys	Ser	Met	Leu	Tyr	Ile	Thr	Glu	Ser	Ser	Ala	Gly	Ala	Thr
65					70					75			80
Phe	Val	Tyr	Lys	Tyr	Tyr	Leu	Tyr	Thr	Ala	Gln	Lys	Thr	Asp
			85						90				95
Phe	Leu	Glu	Asp	Ile	Lys	Asn	Gly	Tyr	Glu	Pro	Phe	Leu	Val
			100					105				110	
Asp	Pro	Gly	Val	Lys	Val	Ser	Ile	Glu	Asp	Arg	Thr	Ile	Phe
		115					120					125	
Val	Ser	Gly	Asp	Ile	Phe	Lys	Phe	Asn	Asn	Ile	Val	Gly	Ser
	130					135					140		
Ile	Tyr	Leu	Asn	Ser	Ser	Pro	Phe						
145					150								

<210> 11129

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 11129

Phe	Tyr	Ser	Arg	Ala	Ile	Asn	Gly	Val	Arg	Arg	Val	Ile	Asn
1				5					10				15
Val	Met	Asn	Asp	Val	Gly	Glu	Gln	Ala	Val	Gln	Thr	Glu	Gln
			20					25				30	
Lys	Thr	Met	Leu	Gln	Gln	Val	Tyr	Ala	Leu	Leu	Ala	Arg	His
		35					40					45	
Ile	Pro	Asn	Ala	Val	Gln	Glu	Gln	Met	Leu	Thr	Ser	His	Val
	50					55					60		
Met	Ala	His	Arg	Ser	Val	Thr	Gly	Glu	Pro	Leu	Pro	Glu	Val
65					70					75			80
Glu	Leu	Phe	Asp	Glu	Ile	Ser	Pro	Asp	Ser	Met	Gln	Leu	Ala
			85						90				95
Val	Val	Ala	Gln	Phe	Gly	Asn	Leu	Pro	Asp	Glu	Glu	Ala	Trp
			100					105				110	
Ser	Val	His	Phe	Glu	Val	Ala	Lys	Asp	Asn	Leu			
		115					120						

<210> 11130

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 11130

Arg	Arg	Ala	Gly	Arg	Ala	Ser	Gly	Thr	Gly	Val	Ala	Glu	Glu
1				5					10				15
Arg	Val	Ser	Met	Lys	Glu	Gln	Phe	Thr	Thr	Thr	Val	Arg	Val
			20					25				30	
Lys	Gly	Asp	Ala	Lys	Ala	Arg	Ala	Phe	Ala	Asp	Ala	Leu	Asn
		35					40					45	
Gln	Ala	Ala	Val	Met	Lys	Ala	Ser	Pro	His	Ile	Leu	Arg	Ile
	50					55					60		
Pro	Gln	Asp	Val	Gln	Val	Val	Gln	Ala	Gln	Glu	Ala	Val	Arg
65					70					75			80
Ala	Phe	Leu	Phe	Phe	Phe	Leu	Arg	Arg	Glu	Arg	Arg	Thr	Tyr
				85					90				95

Glu Leu Asp Val Thr Val Asn Val Thr Ala Ile Asn Leu Asp Gln Val
 100 105 110
 Asp Phe Val Thr Gln Arg
 115

<210> 11131
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 11131
 Pro Leu Val Leu Ile Ser Pro Gly Asp Ala Pro Gly Gly Gly Asn Ser
 1 5 10 15
 Arg Glu Lys Ile Ser Gln Arg Thr Gly Ile Arg Gly Asp Cys Cys Gln
 20 25 30
 Thr Gln Thr Gln Arg Val Arg Gln Arg Gln Gln Gly Ile Asp Leu Ser
 35 40 45
 Val Leu Arg Cys Gly Asn Leu Lys Ser Val Ala Glu Arg Ile Leu Arg
 50 55 60
 Val Val Lys Ala Glu Arg Ile Gly Gly His Leu Gln Leu Thr Arg
 65 70 75 80

<210> 11132
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 11132
 Ser Arg Arg Ser Ser Ile Lys Arg Trp Pro Thr Ile Pro Leu Pro Met
 1 5 10 15
 Ile Ala Glu Ser Asp Phe Asp His Tyr Cys Leu Asp Phe Phe Ser Ile
 20 25 30
 Ile Ala Tyr Val Asn Asp Ser Ala Gly Ala Leu Ile Asp Ala Asn Gln
 35 40 45
 Ile Arg Leu His Ile Pro Leu Arg Gly Tyr Ile Tyr Asp Leu Ser Gly
 50 55 60
 Leu Leu
 65

<210> 11133
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 11133
 Glu Lys Lys Leu Ile His Val Ser Leu Met Arg Leu Leu Leu Val Met
 1 5 10 15
 Ser Gly Leu Leu Lys Val Lys Lys Asn Ala Met Thr Ala Phe Glu Arg
 20 25 30
 Ala Asp Phe Ser Arg Glu Ser Asp Leu Ile Lys Ser Phe Gln Lys Ile
 35 40 45
 Leu Ser Thr Ile Ala Gly Phe Asn Val Met Gln Ile Thr Leu Tyr Cys
 50 55 60
 Gly Val Asn Asn Arg Leu Arg Gly Asn Asn Cys Phe Asn Leu Val Lys
 65 70 75 80
 Leu Gly Lys Arg Leu Val Trp Val His Thr Ala Leu
 85 90

<210> 11134
 <211> 61
 <212> PRT

<213> Enterobacter cloacae

<400> 11134

```

Leu Ala Ser Glu Gln Phe Val Arg Leu Ala Val Ile Asn Asp Leu Cys
1          5          10          15
Thr His Leu Met His Arg Leu Arg Gly Trp Leu Arg Thr Leu Asp Glu
          20          25          30
Ile Leu Gly Thr Ala Ile Thr Ala Ile Arg Glu Leu Ser Ser Ala Ala
          35          40          45
Val Asn Ile Asp Arg Asp Asn Ala Arg Arg Arg Arg
          50          55          60

```

<210> 11135

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 11135

```

Glu Arg Tyr Ile His Arg Leu Phe Ile Phe Leu Thr Val Ser Ala Asn
1          5          10          15
Ala Met Gly Lys Phe Ile Ile Tyr Met Leu Asn Ile Leu Phe Cys Gly
          20          25          30
Tyr Val Leu Ala Thr Cys Leu Ile Ser Leu Val Ser Phe Asp Asn Trp
          35          40          45
Glu Asp Arg Thr Ile Ala Ile Thr Ile Ile Leu Gly Ser Ala Gln Leu
          50          55          60
Ile Ala Thr Leu Leu Asn Arg Ala Leu Pro His Lys Leu His Ile Leu
65          70          75          80
Gly Gly Ile Ala Glu Leu Ile Glu Gly Pro Leu Leu Val Ile Gly Ala
          85          90          95
Ile Val Cys Leu Asp Val Phe Glu Pro Trp Pro Met Lys Ile Ile Gly
          100          105          110
Met Phe Ala Trp Val Ile Phe Met Met Phe Arg Pro Ser Phe Thr Lys
          115          120          125
Arg Asn Lys Glu
          130

```

<210> 11136

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 11136

```

Leu Ile Ala Thr Asn Glu Glu Val Phe Met Thr Ile Arg Asn Asn Arg
1          5          10          15
Thr Glu Ile Ser Leu Ala Leu Gly Glu Ala Val Leu Asp Ile Val Gln
          20          25          30
Lys Gly His Glu Val Ser Arg Glu Asn Leu Ala Gln Ala Met Lys Ile
          35          40          45
Lys Ala Glu Lys Glu Arg Asp Asp Glu Arg Leu Leu Asn Tyr Trp Lys
          50          55          60
Ala Cys Asn Met Leu Val
65          70

```

<210> 11137

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 11137

```

Arg Phe Leu Gly Gly Ala Gly Leu Gln Leu Leu Cys Ile Leu Met Lys

```

```

1           5           10           15
Asn Thr Thr Met Pro Pro Arg Ile Asp Leu Gly Leu Phe Phe Leu Arg
20           25           30
Leu Thr Gly Ser Leu Leu Leu Leu Tyr Val His Gly Leu Pro Lys Val
35           40           45
Leu His Phe Ser Glu Glu Leu Thr Arg Ile Glu Asp Pro Phe Gly Phe
50           55           60
Gly Pro Tyr Ala Ser Leu Ile Pro Ala Ile Val Ala Glu Val Ile Cys
65           70           75           80
Pro Leu Phe Ile Ile Ala Gly Val Tyr Thr Arg Leu Ala Cys Leu Pro
85           90           95
Ile Ile Ala Val Leu Leu Val Ala Met Leu Ala Val His Pro Asn Trp
100          105          110
Ser Ile Ala Glu Gly Gln Phe Gly Trp Leu Leu Leu Ile Ile Phe Thr
115          120          125
Thr Leu Ala Leu Thr Gly Pro Gly Gln Trp Arg Leu Gln Arg Lys Ala
130          135          140
Ala Glu Arg Phe Ala
145          150

```

<210> 11138

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 11138

```

His Val Gly Gly Arg Ala Ala Arg Arg Gly Lys Pro Gly Leu Gly Glu
1           5           10           15
Gly Val Gly Gly Ala Ala Gly Lys Thr Glu Ala Ala Gln Thr Ala Gly
20           25           30
Gly Val Val Met Asn Glu Asp Arg Pro Gly Phe Asp Ile Ala Val Asp
35           40           45
Gln Val Val Leu Met His Leu Ala Gln Gly Thr Ala Asp Ala Asp Arg
50           55           60
His Leu Asp Lys Ala Gly Asp Pro Gly Asn Arg Leu Thr Cys Pro Ala
65           70           75           80
Arg Gln Gln Phe Lys Ala Glu Trp Arg Val Asp Gln Arg Lys Thr Ser
85           90           95
Ala Val Leu Gly
100

```

<210> 11139

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 11139

```

Arg Arg Phe Arg Leu Ala Asn Ser Arg Arg Arg Ala Gly Pro Ser Ser
1           5           10           15
Gly Ser Pro Leu Pro Leu Ser Leu Glu Phe Thr Met Ser Thr Gly Leu
20           25           30
Ile Ser Leu Ala Ala Gly Val Leu Ile Gly Leu Met Tyr Ala Val Leu
35           40           45
Lys Val Arg Ser Pro Ala Pro Pro Ala Leu Ala Leu Ile Gly Leu Leu
50           55           60
Gly Met Leu Ala Gly Glu Gln Ala Met Arg His Leu Leu Ser Arg Asp
65           70           75           80
Asn Pro Ala Ala Val Gln Val Thr Val Pro His Val Gln His Pro Thr
85           90           95
Gly Ala Ser Ser
100

```

<210> 11140
 <211> 120
 <212> PRT
 <213> Enterobacter cloacae

<400> 11140
 Ser Asn Cys Ala Gly Gln Arg Gln Thr Met Val Glu Asn Ile Glu Gln
 1 5 10 15
 Arg Ile Tyr Ala Leu Val Arg Arg Tyr Asn Gly Val Tyr Leu Met Asn
 20 25 30
 Asn Glu Glu Lys Gln Lys Leu Leu Asn Ala Lys Thr Asp Leu Asp Thr
 35 40 45
 Asp Met Gln Leu Asp Val Thr Glu Ala Glu Asp Leu Met Asp Glu Phe
 50 55 60
 Phe Lys Glu Phe Asn Val Asp Arg Gly Asn Phe Asn Ile Asn Thr Tyr
 65 70 75 80
 Tyr Pro Asp Glu Pro Phe Ser Trp Asn Pro Phe Lys Lys Phe Pro Val
 85 90 95
 Val Met Val Pro Asp Phe Thr Ile Gly Met Leu Ile Glu Ser Ala Lys
 100 105 110
 Ala Gly Lys Trp Leu Tyr Asp
 115 120

<210> 11141
 <211> 154
 <212> PRT
 <213> Enterobacter cloacae

<400> 11141
 Thr Met Asp Thr Thr Glu Glu Leu Asn Glu Thr Tyr Phe Tyr Ala Gly
 1 5 10 15
 Arg Thr Asn Leu Thr Ala Ala Gly Leu Phe Phe Met Ile Tyr Cys Glu
 20 25 30
 Ser Ile Ala Asp His Phe Gly Ile Asp Asp Val Ala Gly Ile Ala Ala
 35 40 45
 Leu Tyr Ser Gly Ala Asn Asn Gln Thr Thr Arg Lys Lys Pro Ala Gly
 50 55 60
 Ala Thr Glu Gly Thr Ser Arg Ala Ser Lys Ala Met Arg Asn Tyr Phe
 65 70 75 80
 Lys Gln Ala Lys Phe Pro Tyr Gly Ile Lys Leu Pro Thr Trp Val Gly
 85 90 95
 Gly Tyr Thr Pro Trp Thr Val Lys Cys Arg Met Val Ser Lys Val Ser
 100 105 110
 Ala Phe Val Gly Arg Thr Ile Pro Leu Ile Gly Ile Val Ile Leu Val
 115 120 125
 Ala Asp Val Ser Leu Ile Thr Tyr Ala Ala Ile Arg Asp Tyr Asn Arg
 130 135 140
 Ile Ala Arg Gly Ser Asp Lys Leu Trp
 145 150

<210> 11142
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 11142
 Ser Gly Cys Arg Ala Gly Asp Gly Ser Pro Arg Ser Thr Pro Asp Arg
 1 5 10 15
 Ser Val Ile Met Lys Ala Trp Ile Ile Ser Leu Val Cys Gly Ala Ala
 20 25 30

Ala	Gly	Val	Leu	Tyr	Ala	Leu	Leu	Asp	Val	His	Ser	Pro	Ala	Pro	Pro
		35					40					45			
Val	Val	Ala	Leu	Leu	Gly	Leu	Phe	Gly	Met	Leu	Val	Gly	Glu	Gln	Leu
	50					55					60				
Ile	Pro	Ile	Gly	Arg	Arg	Leu	Val	Ser	Arg	Glu	Pro	Leu	Thr	Leu	Ala
65				70					75						80
Trp	Phe	Arg	His	Glu	Cys	Val	Pro	Lys	Ile	Ser	Gly	Thr	Ala	Pro	Pro
			85					90						95	
Ala	Pro	Ala	Lys	Glu	Ser	Arg	Asp	Ala							
			100					105							

<210> 11143

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 11143

Cys	Phe	Lys	Met	Leu	Ile	Glu	Arg	Leu	Ser	Leu	Asn	Leu	Cys	Ala	Thr
1				5					10					15	
Val	Asn	Phe	Val	Gln	Gln	Ala	Asn	Asn	Arg	Asn	Arg	Arg	Ile	Ile	Met
			20					25					30		
Val	Asp	Lys	Ser	Ala	Ile	Lys	Asp	His	Thr	Gln	Val	Val	Ala	Ser	Cys
		35					40				45				
Gly	Thr	His	Val	Gly	Val	Val	Asp	His	Leu	Asp	Gly	Glu	Arg	Ile	Lys
	50					55					60				
Leu	Ala	Lys	Ser	Asp	Pro	Glu	Ser	Gly	Gly	Lys	His	His	Phe	Ile	Pro
65				70					75						80
Leu	Gly	Trp	Val	Asp	Lys	Val	Glu	Asp	Asn	Lys	Val	Val	Leu	Thr	Lys
			85					90						95	
Asn	His	Lys	Glu	Val	Phe	Ala	Glu	Trp	Gln	Glu	Ala				
			100					105							

<210> 11144

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 11144

Phe	Ser	Leu	Phe	His	Leu	Gln	Glu	Ile	Ile	Asp	Pro	Ser	Met	Met	Lys
1				5					10					15	
Tyr	Ile	Arg	Asp	Ser	Leu	Ala	Leu	Ser	Ala	Leu	Val	Lys	Ser	Lys	Met
			20					25					30		
Ala	Thr	Asp	Asp	Leu	Asn	Gln	Leu	Glu	Thr	Leu	Lys	Glu	Gln	Leu	Lys
		35					40					45			
Asp	Arg	Phe	Gly	Val	Pro	Val	Gly	Val	His	Met	Thr	Gly	Ile	Pro	Leu
	50					55					60				
Ala	Val	Ser	Thr	Leu	Leu	Ala	Ile	Phe	Cys	Tyr	Ala	Met	Leu	Gln	Val
65				70					75						80
Ser	Leu	Trp	Leu	Leu	Phe	Arg	Trp	Leu	Gly	Leu	Pro	Glu	Phe	Lys	
			85					90					95		
Val	Met	Met	Gly	Val	Phe	Ile	Ala	Ala	Ile	Val	Tyr	Cys	Leu	Val	Val
			100					105					110		
Met	Ser	Thr	Met	Phe	Leu	Thr	Thr	Arg	Gly	Ser	Leu	Pro	Gly	Tyr	Lys
		115					120					125			
Leu	His	Ile	Phe	Val	Ile	Thr	Leu	Thr	Gly	Ile	Met	Ser	Ile	Ile	Tyr
	130					135					140				
Phe	Ile	Trp	Thr	Gly	Ile	Ser	Leu	Leu	Phe	Gly	Pro	Val	Glu	Asn	Tyr
145				150					155						160
Thr	Pro	Gln	Ile	Thr	Ser	Leu	Leu	Gly	Leu	Gly	Phe	Phe	Phe	Leu	Asn
			165					170						175	
Ile	Met	Trp	Met	Asn	Ser	Ser	Ile	Phe	Tyr	Arg	Ser	Ile	Ala	Leu	Thr

180 185 190
 Leu His Asn Arg Val Trp Arg Lys Gln Leu Lys Ile Glu Ala Arg Pro
 195 200 205
 Met Ser His Leu Lys Arg
 210 215

<210> 11145

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11145

Gln Gln Gly Val Leu Thr Phe Asp Ala Gly Arg Ile Val Ala Ala Asn
 1 5 10 15
 Leu Ile Ala Gly Lys Glu Thr Thr Val Leu Ile Phe Val Phe Lys Ile
 20 25 30
 Asn Ile Lys Ser Lys Val Leu Arg Phe Ser Asp Phe Leu Tyr Ile Asp
 35 40 45
 Lys Ile Asp His Arg Thr Ile Tyr Cys Asp Ile Ser
 50 55 60

<210> 11146

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 11146

Thr Leu Phe Gly Thr Phe Leu Ile Leu Ser Val Asn Arg Thr Phe Thr
 1 5 10 15
 Leu Val Leu Leu Thr Ile Asn Ile Ser His Gly Arg Arg Asp Glu Val
 20 25 30
 Thr Phe Thr Gly Gln Phe Ser Lys Asp Leu Pro Asp Tyr Ala Leu Ala
 35 40 45
 Arg Ser Leu Gly Leu Ala Ser Gly Gly Asp Ile Asn Phe Thr Ala Leu
 50 55 60
 Ala Gly Gln Leu Asp Cys Ser Arg Asn Phe Ser Gln Ala Gly Ile Ile
 65 70 75 80
 Tyr Ser Asp Gly Thr Arg Gln Trp Leu Val Arg Pro Ser Arg Ile
 85 90 95
 Ala Thr Pro Asn Glu Ser Ser Val Ser His Val Val Ile Thr Lys Val
 100 105 110
 Asn Ala Ala Leu Val Asn Pro Val Gln Ala Thr Thr Ala Thr Ile Asn
 115 120 125
 Ser Pro Ser Leu Ala Thr Glu Ile Gly Ser Thr Ala Ile Ser Cys Gly
 130 135 140
 Ala Ala Ile Leu Thr Val Val Leu Ala Ala Gly Ala Gly Met Ala Ile
 145 150 155 160
 Pro Leu Thr Ala Gly Ser Ser Gly Ala Ile Ala Ala Val Ile Leu Ala
 165 170 175
 Gly Gly Val Ala Thr Gly Ile Gln Cys Ala Asn Gly Leu Gly Arg Leu
 180 185 190
 Ser Leu Ile Ala Met Asn His Asp Asp Tyr Val Ala Trp Met Asp Ser
 195 200 205
 Gln Glu Trp Tyr Thr Ala Thr Asn Thr Ala Leu Asp Ala Ile Ser Leu
 210 215 220
 Ala Gly Ala Ala Ala Gly Leu Lys Ser Ala Ala Leu Thr Tyr Arg Leu
 225 230 235 240
 Leu Asn Arg Ser Ser Glu Ser Leu Leu Ser Leu Leu Gln Lys Met
 245 250 255
 Ser Arg Ala Asp Arg Thr Arg Leu Thr Glu Glu Ile Ile Arg Ile Arg
 260 265 270

```

Asn Pro Gly Ile Ser Asn Ser Gly Val Lys Ala Ala Met Lys Ala Gly
      275      280      285
Val Tyr Pro Lys Arg Tyr Pro Ser Glu Ala Leu Gln Leu Leu Gln
      290      295      300
Arg Glu Leu Leu Asn Thr Ile Ser Asn Ser Ser Ala Phe Val Gly Ser
305      310      315      320
Ala Ile Ser Gly Asn Ile Arg Asn Pro Gln Asn Val Ala Gln Thr Gly
      325      330      335
Lys Tyr Ile Phe Gly Leu Ile Gln Ser Phe Ser Phe Thr Gly Asn Tyr
      340      345      350

```

<210> 11147
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 11147
Leu Tyr Leu Lys Thr Met Lys Asn Phe Asp Asn Glu Met Arg Ile Phe
1      5      10
Ser Leu Ile Phe Ser Val Phe Ile Ile Glu Leu Val Ser Phe Tyr Phe
      20      25      30
Asn Ile Ser Gly Gly Pro Thr Ala Val Met Ser Ala Ile Val Val Ser
      35      40      45
Gln Ser Phe Val Gly Ala Gln Tyr Leu Lys Ala Arg Asn Arg Thr Ile
      50      55      60
Gly Ser Leu His Gln Arg Pro Glu Gly Gln Ile
65      70      75

```

<210> 11148
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 11148
Pro Leu Arg Ile His Pro Lys Arg Ser Arg Ala Phe Ser Val Lys Leu
1      5      10      15
Ile Tyr Arg Arg Trp Gly Ile Ser Pro Arg Pro Glu Asn Lys Arg Asp
      20      25      30
Asn Tyr Asn Ala Ile Asp Tyr Pro Gly Gln Cys Ile Ser Phe Lys Gln
      35      40      45
Phe Cys Leu Thr Arg Gly Met Thr Arg Tyr Asn Arg His
      50      55      60

```

<210> 11149
 <211> 91
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 11149
Leu His Pro Arg Val Asp Glu Ile Asp Asp Val Gly Ser Gly Lys Gln
1      5      10      15
Val Ile Asp Glu Asn Ala Trp Asp Ser Ser Gly His Met Pro Gln Lys
      20      25      30
Phe Lys Arg Leu Ile Asn Glu Asn Lys Pro Arg Ile Pro Ser Gly Ser
      35      40      45
Thr Ala Leu Arg Leu Gln Leu Cys Leu Ser Ile Glu Gly Cys Gly Pro
      50      55      60
Gln Gln Ile Ser Thr Asp Glu Tyr Gly Val Arg Phe Arg Glu Pro Val
65      70      75      80

```

Ser Ser Arg Asp Val Ser Gln Arg Lys Leu
85 90

<210> 11150

<211> 121

<212> PRT

<213> Enterobacter, cloacae

<400> 11150

Met Lys Lys Ile Ile Val Leu Ser Leu Leu Gly Val Val Val Ala Val
1 5 10 15
Gly Ala Ala Ala Ser Ile Tyr Ser Asn Glu Glu Pro Glu Tyr Ile Gln
20 25 30
Ser Ala Lys Ser Arg Val Gly Ser Tyr Leu Thr Ser Asp Tyr Gly Arg
35 40 45
Val Glu Cys Asn Ser Thr Gln Val Ser Glu Asp Arg Trp Glu Leu Gly
50 55 60
Cys Thr Asn Lys Ala Arg Gly Lys Thr Phe Gln Phe Ala Val Tyr Pro
65 70 75 80
Pro Glu Gln Ala Pro Tyr Gly Val Ser Arg Ala Phe Tyr Leu Glu Ala
85 90 95
Ile Asn Asp Asp Ala Arg Gln Ser Ala Asp Gln Gly Leu Met Arg Tyr
100 105 110
Leu Gln Ile Asn Thr Lys Ala Gly
115 120

<210> 11151

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 11151

Pro Ile Phe Ser Thr Leu Ile Ser Tyr Thr Arg Val Arg Tyr Met Val
1 5 10 15
Ile Lys Gly Ser Val Ala Pro Arg Pro Ile Val Asn Asn Asn Asp Asp
20 25 30
Ala Ser Ser Ala Ala Val Glu Arg Leu Ile Asp Gly Phe Ile Phe Leu
35 40 45
Pro Asp Lys Cys Leu Cys Phe Val Val Leu Leu Gln Asp Tyr His
50 55 60
Gly Ile Gly Ser Leu Tyr Ser Thr Gln Phe Ile Arg Lys Cys Phe Ser
65 70 75 80
Ser Val Pro Glu Leu Met Ile Phe Ser Arg Gly Tyr Phe Phe Cys Tyr
85 90 95
Leu Glu Val Phe Thr Lys Phe
100

<210> 11152

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 11152

Lys Gly Glu Gly Ile His Tyr Arg Tyr Tyr Pro Val Thr Gly Gly Phe
1 5 10 15
Leu Met Lys Ile Leu His Leu Leu Thr Gly His Val Ser Tyr Glu Leu
20 25 30
Leu Gln His Gly Lys Arg Ile Glu Asp Ala Ile Gly Arg His Asp Asn
35 40 45
Asp Leu Leu Asn His Ser Thr Pro Glu Leu Glu Arg Tyr Phe Ser Arg
50 55 60

Pro	Leu	Ser	Glu	Leu	Pro	Arg	Lys	Asn	Ala	Tyr	Pro	Val	Ala	Ile	Leu
65					70					75					80
Leu	Pro	Leu	Phe	Leu	Val	Ile	Phe	Ala	Phe	Asn	Leu	Leu	Pro	Phe	Leu
				85					90					95	
Gln	Thr	Ile	Ser	Ser	Met	Ser	Pro	Thr	Leu	His	Thr	Leu	Ser	Phe	Phe
			100					105					110		
Val	Pro	Ser	Leu	Ala	Ile	Leu	Ile	Phe	Leu	Met	Leu	Ala	Ser	Ala	Phe
		115					120					125			
Leu	Ala	Arg	Gly	Tyr	Thr	Ser	Gly	Leu	Ser	Gly	Phe	Leu	Ala	Leu	Phe
	130					135					140				
Ile	Ile	Leu	Leu	Thr	Leu	Thr	Val	Leu	Gln	Trp	Leu	His	Tyr	Leu	Thr
145					150					155					160
Ile	Ser	Asp	Gly	Ser	Ser	Trp	Gln	Leu	Ile	Ile	Ala	Thr	Ile	Ala	Leu
			165					170						175	
Val	Ile	Ser	Arg	Met	Val	Leu	Asn	Ser	Arg	Gly	Phe	Val	Leu	Phe	Thr
			180					185					190		
Leu	Tyr	Cys	Arg	Ser	Lys	Arg	Leu	Ala	Thr	Leu	Ala	Arg	Ile	Met	Arg
		195					200					205			
Leu	Lys	Ser	Gly	Lys	Asp	Asn	Val	Arg	Asn	Thr					
	210					215					220				

<210> 11153

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 11153

His	Asp	Tyr	Phe	Phe	His	Leu	Phe	Asp	Pro	Ile	Leu	Ser	Gln	Lys	Asn
1				5					10					15	
Leu	Ile	Val	Asn	Asp	Phe	Pro	Ile	Asn	Leu	Val	Ala	Leu	Cys	Ile	Pro
			20					25					30		
Glu	Met	Gly	Val	Tyr	Asn	Val	Asp	Ile	Ala	Phe	Lys	Asn	Ser	Leu	Lys
		35					40					45			
Arg	Val	Leu	Leu	Arg	Pro	Gln	Phe	Leu	Thr	Leu	Tyr	Phe	Leu	Lys	Phe
	50					55					60				
Lys	Glu	Ser	Asn	Asn	Tyr	Ser	Met	Lys	Leu	Ser	Leu	Arg			
65					70					75					

<210> 11154

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11154

Lys	Val	Lys	Ile	Glu	Cys	Arg	Val	Ala	Leu	Arg	Leu	Pro	Asp	Leu	Glu
1				5					10					15	
Asn	Pro	Asn	Pro	Arg	Pro	Gly	Lys	Ala	Lys	Pro	Ser	Pro	Gly	Lys	Thr
		20						25					30		
Asn	Thr	Leu	Val	Val	Gln	His	Leu	Leu	His	His	Leu	Leu	Leu	Val	His
		35					40					45			
Leu	Ile	Arg	Val	Val	Gly	Arg	Pro	Val	Ile	His	Leu	Phe	Gln	Gln	Arg
	50					55					60				
Leu	Val	Gly	Gly	Val	Ala	His	Lys	Asp	Met	Glu	Val				
65					70					75					

<210> 11155

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 11155

Pro Val Lys Glu Val Lys Val Pro Pro Gly Ala Ala Glu Phe Thr Val
 1 5 10 15
 Arg Tyr His Met Gln Thr Ala Gly Ala Leu Leu Phe Asp Asn Met Ala
 20 25 30
 Asn Gly Leu Val Leu Asn Arg Ala Lys Leu Thr Gly Ile Asp Leu Thr
 35 40 45
 Ala Gly Lys Leu Gln Thr Gly Leu Phe Asn Arg Val Arg Ala
 50 55 60

<210> 11156

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 11156

Lys Thr Ala Asp Tyr Ile Gly Ala Val Arg Gly Val Val Ser Leu His
 1 5 10 15
 Gly Asn Leu Leu Cys Leu Ser Ala Leu Ile Ala His Ser Asp Asn Ser
 20 25 30
 Phe Leu Glu His Leu Asp Phe Trp Met Ser Lys Arg Pro Lys Lys Met
 35 40 45
 Ser Tyr Arg Leu Ala Ala Asp Lys Arg Glu Asn Phe Ile Cys Val Glu
 50 55 60
 Ile Asn Ser Cys Ser Gln Gly Gly Arg
 65 70

<210> 11157

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 11157

Met Gln Arg Ala Gly Gln Met Pro Pro Gly Lys Met Phe Arg Leu Pro
 1 5 10 15
 Asp Asn Val Gln Gln Asn Lys Val Leu Leu Thr Ala Gly Tyr Arg Val
 20 25 30
 Met Asp Ile Gly Ala Val Arg Leu Asp Ala Gln Thr Thr Gln Lys Met
 35 40 45
 Pro His Gly Phe Leu Arg Leu Ser Ser Arg Lys Phe Ser Asn Ile Ala
 50 55 60
 His Glu Ser Ser Ser Phe Val Val Phe Val Leu Thr Leu Leu Tyr Pro
 65 70 75 80
 Leu Ile Gln Asn Met Asn Ala Ser Ala Tyr Ala Arg Lys Gln Gln Lys
 85 90 95
 Asp Asp Lys Leu Lys Thr Ser Leu Ala Ala Arg Gly Arg Ala Gly Ile
 100 105 110

<210> 11158

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 11158

His Gln Lys Arg Ile Asp Ala Glu Asn Thr Pro Ser His Asp Gln Tyr
 1 5 10 15
 Phe Thr Val Val Met Leu Phe Ile Ile Gly Thr Ser Asp Phe Asn Tyr
 20 25 30
 Leu Arg Leu Arg Gly Leu Pro Ser Phe Tyr Ile Ala Asp Val Tyr Leu
 35 40 45

Leu Arg Ser Thr Lys Ala His Ser Leu Tyr Ser Asp Tyr Leu His His
 50 55 60
 Tyr Ala Lys Phe Lys Ile Val Phe Trp Val Arg Leu Pro Arg Thr
 65 70 75 80
 His Gln

<210> 11159

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 11159

Thr Thr Ile Val Ser Pro Ser Ala Arg Val Ser Ser Ala Ala Cys Ala
 1 5 10 15
 Leu Trp Tyr Ser Val Glu Lys Met Ala Ser Val Ser Val Ala Gly Ala
 20 25 30
 Asn Leu Ile Met Leu Phe Ile Asn Ser Phe Pro Phe Val Lys Asn Ala
 35 40 45
 Met Thr Asn Ile Asn Asp Ser His Ser His Tyr Asn Lys Val Thr Ala
 50 55 60
 Ile Ser Ile Lys Ser Ser
 65 70

<210> 11160

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 11160

Ser Leu Ala Gly Gly Leu Ser Trp Leu Cys Pro Val Leu Asp Gly Gly
 1 5 10 15
 Cys Ser Ser Cys Leu Glu Leu Leu Gly Leu Ile Met Val Met Thr Val
 20 25 30
 Arg Thr Glu Ala Arg Lys Glu Met Cys Gln Leu Arg Asp Asn Ala His
 35 40 45
 Lys Ala Arg Lys Ala Pro Ala Thr Ser Val Pro Ala Ser Trp Lys Leu
 50 55 60
 Thr Pro Gln Gln Gln Ala Phe Ile Asp Val Phe Ala Glu Asp Glu Pro
 65 70 75 80
 Lys Lys Gln

<210> 11161

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 11161

Leu Leu Ile His Asp Ile Ala Ser Val Ile Ile Val Val Thr Lys Glu
 1 5 10 15
 Ala Tyr Pro Gln Pro Ile Arg Leu Thr Thr Ser Lys Thr Arg Phe Gly
 20 25 30
 His Pro Leu Phe Asn Thr Leu Phe Arg Gln Thr Leu Lys Ile Ile Pro
 35 40 45
 Asn Thr Glu Ala Pro Val Ala Thr Ile Tyr Phe Cys Val Val Ser Thr
 50 55 60
 Leu Val Ile Ile His Ala Thr Phe Thr Leu Gly Leu Leu Ala Lys Arg
 65 70 75 80
 Thr Pro Asn Ile Gln Ile Tyr Phe Ser Leu Thr Ser Gly Phe Thr Val
 85 90 95

Arg Phe

<210> 11162

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 11162

Val	Gln	Leu	Phe	Pro	Arg	Ser	Asp	Ser	Met	Lys	Ser	Leu	Pro	Phe	Phe
1				5					10					15	
Phe	Ala	Val	Leu	Thr	Leu	Ser	Thr	Leu	Thr	Ala	Cys	Ser	Ser	Pro	Gln
			20					25					30		
Pro	Asp	Asn	Val	Glu	Lys	Ile	Asn	His	Leu	Gln	Ile	Pro	Leu	Val	Leu
		35					40					45			
Pro	Gly	Glu	Lys	Ser	Pro	Gln	Val	Gln	Ile	Ser	His	Ile	Ala	Ser	Leu
	50					55				60					
Tyr	Gln	Glu	Asn	Lys	Gln	Gln	Ile	Glu	Thr	Leu	Thr	Arg	Ser	Val	Lys
65					70					75					80
Ser	Gln	Tyr	Leu	Gln	Asp	Thr	Thr	Ala	Lys	Glu	Ile	Phe	Val	Ala	Asp
				85				90						95	
Ser	Ala	Val	Gln	Arg	Val	Tyr	Ala	Ser	Leu	Thr	Lys	Leu	Glu	Gln	Leu
			100					105					110		
Asp	Met	Val	Asn	Gln	Gln	Tyr	Leu	Lys	Asp	Asn	Asn	Val	Thr	Gly	Leu
	115						120					125			
Gln	Asn	Ile	His	Ile	Val	Leu	Glu	Pro	Leu	Phe	Thr	Ser			
	130						135					140			

<210> 11163

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 11163

Asn	Asp	Gln	Thr	His	Phe	Gly	Lys	Glu	Ser	Leu	Met	Asp	Ile	Ala	Leu
1				5					10					15	
Leu	Asn	Arg	Gly	Trp	Asn	Arg	Thr	Trp	Ser	Asp	Thr	Met	Val	Asn	Leu
			20					25					30		
Glu	Ala	Arg	Lys	Leu	Val	Glu	Thr	Ala	Asn	Arg	Leu	Ser	Ala	Phe	Tyr
			35				40					45			
Leu	Gln	Asp	Gly	Leu	Thr	Arg	Ile	Lys	Phe	Val	Glu	Glu	Ile	Lys	Gln
	50					55				60					
Val	Ala	Asp	Lys	Glu	Phe	Glu	Thr	Ala	Arg	Arg	Ala	Lys	Thr	Asp	Glu
65					70				75						80
Glu	Cys	Ile	Ala	Cys	Ile	Lys	Asn	Leu	Arg	Ala	Glu	Thr	Asp	Asn	Leu
				85				90						95	
His	Glu	Gln	Glu	Arg	Leu	Leu	Arg	Thr	Arg	Ala	Ala	Gln	Leu	Tyr	Ala
			100					105					110		
Lys	Val	Glu	Phe	Val	Lys	Glu	Asn	Asn	Lys	Ile	Val	Gly	Tyr	Val	Ile
	115					120						125			
Ser	Ala	Val	Asn	Val	Val	Leu	Ser	Gly	Val	Val	Leu	Phe	Gly	Gly	Phe
	130					135					140				
Met	Met	Leu	Ser	Thr	Met	Gly	Pro	Ile	Gly	Met	Leu	Ala	Gly	Ala	Val
145					150					155					160
Leu	Ile	Ala	Asp	Gly	Met	Asn	Gly	Leu	Thr	Lys	Glu	Val	Leu	Asn	Phe
				165				170						175	
Asp	Gln	Pro	Glu	Gly	His	Lys	Pro	Ser	Gln	Gly	Ile	Ile	Ala	Asp	Ser
			180					185					190		
Ala	Met	His	Thr	Ala	Gln	Phe	Met	Gly	Phe	Asn	Pro	Asn	Thr	Gly	Leu
	195						200					205			
Ala	Leu	Tyr	Asn	Gly	Val	Thr	Leu	Gly	Ala	Ser	Val	Tyr	Ser	Ile	Val

210		215		220											
Gly	Leu	Ala	Arg	Lys	Thr	Gly	Ala	Trp	Arg	Leu	Phe	Arg	Trp	Leu	Pro
225					230					235					240
His	Asp	Tyr	Tyr	Arg	Lys	Val	Ser	Thr	Met	Ser	Thr	Pro	Lys	Leu	Thr
				245					250					255	
Met	Lys	Ile	Val	Gly	Tyr	Gly	Val	Lys	Ala	Lys	Val	Ile	Phe	Asp	Leu
			260					265					270		
Leu	Thr	Thr	Glu	Asn	Gly	Thr	Ser								
			275				280								

<210> 11164

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 11164

Leu	Leu	Ala	Gln	Ser	Ala	Ile	Gly	Lys	Thr	Leu	Leu	Gly	Asp	Lys	Gly
1				5					10					15	
Arg	Asp	Asp	Met	Lys	Val	Thr	Asp	Glu	Ala	Leu	Leu	Arg	Ser	Gly	Phe
			20					25					30		
Thr	Gln	Pro	Glu	Leu	Gln	Lys	Ile	Lys	Ser	Asn	Ile	Glu	Lys	Tyr	Gly
		35					40					45			
Gly	Thr	Leu	Gly	Glu	Ala	Ile	Asn	Asp	Leu	Ala	Arg	Arg	Phe	Val	Thr
	50					55					60				
Leu	Ala	Gly	Val	Val	Ala	Val	Cys	Ala	Leu	Ile	Leu	Leu	Leu	Leu	Ile
65					70				75						80
Val	Phe	Ser	Ser	Pro	Asp	Arg	Ala	Val	Ala	Trp	Gly	Leu	Ala	Met	Ile
				85				90						95	
Phe	Gly	Val	Ala	Ile	Met	Ser	Phe	Ala	Gln	Pro	Pro	Val	Ile	Ser	Tyr
			100					105					110		
Lys	Ser	Trp	Arg	Tyr	Arg	Lys	Thr	Ile	Lys	Asp					
		115					120								

<210> 11165

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11165

Val	Ala	His	Phe	Leu	Tyr	Pro	Gly	Tyr	Pro	Glu	Ile	Asn	Pro	Asn	Asn
1				5					10					15	
Ser	Arg	Val	Ser	Met	Ala	Thr	Gly	Lys	Arg	Lys	Asn	Gln	Lys	Glu	Ser
			20					25					30		
Pro	Glu	Glu	Glu	Leu	Asp	Arg	Leu	Leu	Asp	Glu	Leu	Glu	Leu	Thr	Glu
		35					40					45			
Glu	Gln	Arg	Glu	Phe	Ile	Glu	Ser	Met	Arg	Glu	Asp	Lys	Gly	Asp	Pro
	50					55					60				
Ser	Ser	Glu													
65															

<210> 11166

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11166

Ser	Val	Lys	Glu	Thr	Met	Val	Ser	Phe	Gly	Asp	Ala	Ala	Pro	Val	Arg
1				5					10					15	
Gly	Leu	Leu	Gly	Ser	Leu	Asn	Asn	Ser	Phe	Ala	Ser	Trp	Ser	Leu	Glu
			20					25					30		
Ala	Ser	Ser	Asp	Gly	Ala	Ala	Lys	Pro	Asn	Val	Asp	Asn	Asp	Ser	Arg

35 40 45
 Ser Lys Ala Ile Lys Ala Leu Met Leu Phe Ser Phe Cys Ile Gly Gln
 50 55 60
 Gly Ala Gln His Arg Phe Ala Ala
 65 70

<210> 11167

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 11167

Val Leu Lys Ala Phe Ser Gln Arg Asn Gln Lys Phe Arg Gln Leu Ser
 1 5 10 15
 Glu Thr Val Thr Thr Ala Met Glu Pro Lys Asn Glu Lys Val Pro Gly
 20 25 30
 Ile Lys Glu Ser Tyr Arg Leu Leu Thr Phe Glu Tyr Ala Phe Arg Gln
 35 40 45
 Val Gly Phe Ile Val Leu Leu Ala Ile Ile Val Ala Ala Ile Ala Gly
 50 55 60
 Leu Phe Ser Ser Gly Val Val Ser Asp Val Glu Lys Thr Asn Asp Ala
 65 70 75 80
 Lys Ser Leu Ala Leu Ser Tyr Glu Arg Phe Gly Arg Arg Gln Thr Glu
 85 90 95
 Ser Arg Met Ala Leu Thr Phe Pro Val Thr Ser Glu Gly Lys Tyr Thr
 100 105 110
 Leu Ser Leu Thr Ser Glu Ser Ser Asp Ala Tyr Glu Pro Gly Ser Val
 115 120 125
 Trp Pro Gln Pro Asp Ser Met Tyr Ser Arg Gly Asn Thr Leu Phe Leu
 130 135 140
 Val Tyr Asp Arg Leu Gln Gln Thr Asp Lys Phe Thr Val Leu Leu Phe
 145 150 155 160
 Ile Thr Pro Ser Lys Ala Gly Lys Trp Thr Asn Ser Ile Arg Val Asn
 165 170 175
 Asn Glu Pro Asp Ile Arg Phe Trp Gln Phe Ile Tyr Pro
 180 185 190

<210> 11168

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 11168

Lys Leu Pro Pro Glu Thr Pro Thr Ser Gly Gly Arg Leu Asn Arg Phe
 1 5 10 15
 Gly Val Pro Thr Ile Trp Lys Ile Gly Ala Ser Lys Glu Ala Pro Val
 20 25 30
 Gln Ser Thr Ile Ile Glu Asp Thr Asp Tyr Thr Ala Ala Lys Lys Arg
 35 40 45
 Val Asn Glu Thr Asn Asp Val Ala Leu Ala Thr Ser Phe His Met Cys
 50 55 60
 Val Ile Arg Thr Pro Ile Pro Thr Pro Asp Phe Ala Gly Ala Pro Pro
 65 70 75 80
 Phe Tyr Tyr Cys Glu Phe Ile Gln Gln Leu Thr Ser Lys Glu Ser Gly
 85 90 95
 Lys Arg Leu Ala Lys Phe Leu Cys Gly Leu Leu Pro Ser Pro Gln Pro
 100 105 110
 Ser Pro Thr Gly Arg Gly Arg Lys His
 115 120

<210> 11169

<211> 211
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (27)

<400> 11169

Cys	Arg	Pro	Ser	Ala	Leu	Arg	Leu	Ser	Ala	Ile	Gln	Pro	Gly	Asn
1				5					10				15	
Arg	Ser	Gly	Phe	Arg	Thr	Ala	Ser	Pro	Ala	Xaa	Lys	Asn	Val	Phe
			20					25					30	Gly
Lys	Thr	Ala	Leu	Trp	Leu	Val	Gly	Leu	Cys	Ala	Met	Leu	Val	Val
		35					40					45		Gly
Leu	Tyr	Met	His	Val	Tyr	Trp	Asn	Leu	Arg	His	Pro	Ala	Pro	Glu
	50					55					60			Pro
Ile	Asn	Ala	Ser	Val	Ala	Lys	Pro	Glu	Thr	Gln	Leu	Ser	Glu	Met
65					70					75				His
Tyr	Val	Tyr	Val	Ser	Lys	Pro	Phe	Pro	His	Pro	Gln	Pro	Lys	Val
				85					90					Ala
Pro	Val	His	Val	Asp	Val	Pro	Pro	Met	Gln	Asp	Leu	Pro	Ile	Ser
			100					105					110	Ser
Asp	Asp	Ala	Asp	Trp	Gln	Gln	Ala	Pro	Glu	Gly	Ala	Val	Pro	His
		115					120					125		Asp
Thr	Ser	Arg	Asp	Thr	Leu	Pro	Gly	Thr	Glu	Ala	His	Glu	His	Asp
		130				135					140			Ile
Ala	Pro	Ala	Ser	Thr	Ser	Ser	Glu	Glu	Ser	Ser	Leu	Thr	Glu	Leu
145					150					155				Phe
Lys	Gln	Ala	Leu	Lys	Glu	Gln	Glu	Gln	Asp	Tyr	Ser	Gln	Gly	Lys
				165					170					Ile
Pro	Ala	Pro	Pro	Val	Asp	Glu	Thr	Gln	Asp	Asn	Ser	Gln	Ala	Ser
			180					185					190	Val
Lys	Asn	Ser	Gly	Asn	Ser	Arg	Ser	Pro	Leu	Ser	Glu	Lys	Gly	Glu
		195					200					205		Arg
Arg	Glu													
	210													

<210> 11170
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 11170

Arg	Pro	Asp	Val	Tyr	Pro	Val	Val	Ser	Pro	Leu	Arg	Met	Arg	Phe
1				5					10					15
Phe	Gly	Cys	Thr	Val	Thr	Leu	Gly	Gln	Tyr	Ala	Glu	Thr	Val	Leu
			20					25					30	Leu
Arg	Phe	Lys	Arg	Ala	Ile	Leu	Tyr	Leu	Ile	Glu	Glu	Phe	Arg	His
		35					40					45		Tyr
Leu	Ala	Gly	Ser	Lys	Leu	Gly	Ser	Asp	Thr	Pro	Glu	Asp		
	50					55					60			

<210> 11171
 <211> 159
 <212> PRT
 <213> Enterobacter cloacae

<400> 11171

Phe	Ser	Ala	Phe	Asn	Met	Glu	Ile	Met	Asn	Met	Glu	Asn	Gln	Ser
1				5					10					15

Ser Gln Leu Tyr Ser Glu Leu Ser Leu Asn Pro Asp Leu Pro Thr Leu
 20 25 30
 Ala Glu Arg Cys Lys Leu Leu Thr Glu Ile Leu Leu Asp Cys Lys Ser
 35 40 45
 Leu Pro Gln Thr Gln Pro Val Cys Arg Cys Phe Gly Ala Tyr Met Glu
 50 55 60
 Glu Val Lys Ser Gly Leu Thr Glu Ser Met Arg Asp Phe Gln Val Val
 65 70 75 80
 Glu Phe Glu Asp Asp Ala Glu Gln Pro Arg Gln Lys Glu Trp Leu Leu
 85 90 95
 Glu Asp Thr Glu Thr Lys Cys Asp Tyr Cys Arg Ala Leu Asn His Val
 100 105 110
 Leu Leu Val Ser His Val Asp Arg Asp Met Leu Pro His Leu Thr Gly
 115 120 125
 Leu Leu His Asp Ile Thr His Ala Met Ala Glu Asp Leu Ile Val Pro
 130 135 140
 Met Asn Pro Cys Met Thr Ile His Leu Pro Thr Gln Pro His
 145 150 155

<210> 11172

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11172

Glu Arg Cys Ser Phe Phe Arg Leu Val Ser Ile Leu Asn Leu Tyr Ala
 1 5 10 15
 Ile Glu Met Ile Lys Tyr Tyr Phe Asn His Lys Lys Lys Arg Ile Thr
 20 25 30
 His Gln Val Thr Arg Ser Met Asn Thr Val Leu Cys Ile Cys Val Val
 35 40 45
 Asn Ser Cys Ala Gln Thr Leu Thr Pro Tyr Ala Arg
 50 55 60

<210> 11173

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 11173

Ser His Leu Leu Lys Leu Tyr Phe Arg Tyr Met Phe Lys Val Met Pro
 1 5 10 15
 Val Pro Gln Gln Arg Lys Val Leu Ser Tyr Thr Lys Trp Arg Val Ile
 20 25 30
 Asp Leu Ala Gln Phe Trp Arg Gln Val His Tyr Arg Gln Ser Ser Ile
 35 40 45
 Arg Leu Arg Arg Thr Pro Ser Glu Trp Val Pro Ala Gly Ser Glu
 50 55 60

<210> 11174

<211> 775

<212> PRT

<213> Enterobacter cloacae

<400> 11174

Leu Met Gln Asn Ala Ser Ala Leu Pro His Arg Asn Ala Leu Arg Pro
 1 5 10 15
 Ala Leu Leu Trp Ala Ala Val Cys Leu Ile Leu Leu Gly Val Leu Leu
 20 25 30
 Ser Leu Leu Pro Gly Ala Arg Leu Asn Ser Ser Val Leu Ala Met Leu
 35 40 45

Pro	Lys	Gln	Thr	Leu	Gly	Ala	Ile	Pro	Pro	Ala	Leu	Asn	Asp	Gly	Phe
	50					55					60				
Met	Gln	Arg	Leu	Asp	Arg	Gln	Leu	Ile	Trp	Leu	Val	Ser	Pro	Gly	Lys
65					70					75					80
Gln	Pro	Asp	Pro	Arg	Val	Ala	Gln	Gln	Trp	Leu	Thr	Leu	Leu	Gln	Arg
				85					90					95	
Ser	Gln	Ala	Leu	Ser	Val	Val	Lys	Gly	Pro	Leu	Asp	Ala	Ala	Gly	Gln
			100					105					110		
Gln	Ala	Trp	Gly	Asp	Phe	Phe	Trp	Gln	His	Arg	Asn	Gly	Leu	Val	Asp
		115					120					125			
Pro	Ala	Thr	Arg	Ala	Arg	Leu	Gln	Asn	Gly	Gly	Glu	Ala	Gln	Ala	Gln
	130					135					140				
Trp	Ile	Leu	Ser	Gln	Leu	Tyr	Ser	Ala	Phe	Ser	Gly	Val	Ser	Gly	Lys
145					150					155					160
Glu	Leu	Gln	Asn	Asp	Pro	Leu	Met	Leu	Met	Arg	Gly	Ala	Gln	Leu	Ala
			165					170						175	
Leu	Ala	Lys	Asn	Ser	Gln	Lys	Met	Gln	Leu	Met	Asp	Asp	Trp	Leu	Val
			180					185					190		
Thr	Lys	Asp	Ala	Ala	Gly	Asn	Tyr	Trp	Tyr	Leu	Leu	His	Gly	Glu	Leu
		195					200					205			
Ala	Gly	Ser	Ser	Phe	Asp	Met	Gln	Gln	Thr	His	Gln	Leu	Val	Thr	Thr
	210					215					220				
Leu	Asn	Ala	Leu	Gln	Gln	Thr	Leu	Lys	Ser	Gln	Tyr	Pro	Gln	Ala	Gln
225					230					235					240
Leu	Leu	Ser	Arg	Gly	Thr	Val	Phe	Tyr	Ser	Asp	Tyr	Ala	Ser	Gln	Gln
			245					250						255	
Ala	Lys	Asn	Asp	Ile	Ser	Thr	Leu	Gly	Val	Ala	Thr	Val	Leu	Gly	Val
			260					265					270		
Ile	Leu	Leu	Ile	Val	Ser	Val	Phe	Arg	Ser	Val	Arg	Pro	Leu	Leu	Leu
		275					280					285			
Ser	Leu	Leu	Ser	Ile	Ala	Ile	Gly	Ala	Leu	Ala	Gly	Thr	Val	Val	Thr
	290					295					300				
Leu	Leu	Leu	Phe	Gly	Glu	Leu	His	Leu	Met	Thr	Leu	Val	Met	Ser	Met
305					310					315					320
Ser	Ile	Ile	Gly	Ile	Ser	Ala	Asp	Tyr	Thr	Ile	Tyr	Tyr	Leu	Thr	Glu
			325					330						335	
Arg	Met	Val	His	Gly	Ala	Glu	His	Ser	Pro	Trp	Gln	Ser	Leu	Ala	Lys
			340					345					350		
Val	Arg	Asn	Ala	Leu	Leu	Leu	Ala	Leu	Leu	Thr	Thr	Val	Val	Ala	Tyr
		355					360					365			
Leu	Phe	Met	Met	Leu	Ala	Pro	Phe	Pro	Gly	Ile	Arg	Gln	Met	Ala	Val
	370					375					380				
Phe	Ala	Ala	Ala	Gly	Leu	Ser	Ala	Ser	Cys	Leu	Thr	Val	Met	Phe	Trp
385					390					395					400
His	Pro	Trp	Leu	Cys	Arg	Gly	Met	Pro	Val	Arg	Pro	Val	Pro	Leu	Arg
			405					410						415	
Arg	Ile	Met	Gln	Arg	Trp	Leu	Asp	Ala	Trp	Arg	Asp	Gly	Lys	Ala	Leu
			420					425					430		
Ser	Val	Gly	Leu	Pro	Val	Ala	Leu	Ala	Leu	Leu	Ser	Ala	Ile	Gly	Ile
		435					440					445			
Ala	Ser	Leu	Arg	Val	Asp	Asp	Asp	Ile	Ala	Arg	Leu	Gln	Ala	Leu	Pro
	450					455					460				
Gln	Asp	Ile	Leu	Ala	Gln	Glu	Lys	Thr	Ile	Thr	Ala	Leu	Thr	Gly	Gln
465					470					475					480
Asn	Val	Asp	Gln	Lys	Trp	Phe	Val	Val	Tyr	Gly	Ala	Ser	Ala	Gln	Gln
			485					490						495	
Thr	Leu	Glu	Arg	Leu	Glu	Ala	Phe	Thr	Pro	Ala	Leu	Ala	Gln	Ala	Gln
			500					505					510		
Lys	Ala	Gly	Glu	Leu	Thr	Arg	Trp	Arg	Thr	Leu	Pro	Leu	Asn	Ser	Leu
		515					520					525			
Ala	Arg	Gln	Asn	Ser	Asp	Leu	His	Leu	Leu	Arg	Asn	Ala	Ala	Pro	Thr


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<210> 11175
<211> 104
<212> PRT
<213> Enterobacter cloacae
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<210> 11176
<211> 125
<212> PRT
<213> Enterobacter cloacae
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<400> 11176
Leu Arg Ser Tyr Arg Ser Cys Phe Met Lys Ile Pro Glu Ile Gly Arg
1 5 10 15

Leu Gln Pro Asp Pro Gln His Leu Glu Ile Thr Phe Tyr Leu Asp Pro
 20 25 30
 Asp Leu Leu Trp Phe Lys Gly His Phe Ala Val Gln Pro Leu Leu Pro
 35 40 45
 Gly Val Ala Gln Leu Asp Trp Val Met His Tyr Ala Ala Ala Leu Ala
 50 55 60
 Pro Gly Tyr Arg Phe His Ser Ile Gln Asn Val Lys Phe Ala Ala Pro
 65 70 75 80
 Leu Leu Pro Glu Asn Thr Val Thr Leu Leu Leu Ala Trp Gln Pro Glu
 85 90 95
 Arg Glu Met Leu Thr Phe Ser Tyr Gln Arg His Ala Gly Asn Glu Arg
 100 105 110
 His Thr Ala Ser Ser Gly Lys Ile Arg Leu Cys Gln
 115 120 125

<210> 11177

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11177

Ser Cys Lys Val Leu Lys Lys His Ile Gln Asn Met Met Leu Ser Val
 1 5 10 15
 Tyr His Thr Leu Phe Gln His Tyr Thr Leu Met Phe Leu Gln Glu Leu
 20 25 30
 Gln Phe Thr Gly Gly Lys Arg Cys Phe Cys Ser Tyr Leu Ala Leu Arg
 35 40 45
 Asp Ser Val Gly Gln Ile Leu Pro Pro Leu Gln Ser
 50 55 60

<210> 11178

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 11178

Met Lys Phe Thr Leu Thr Leu Ile Asp Trp Gln Ala Arg Ala Pro Gly
 1 5 10 15
 Leu Ser Asp Ala Asp Glu Trp Gln Ala Trp Ser Arg Arg Ser Asp Ala
 20 25 30
 Ile Asp Pro Ala Ala Pro Leu Ala Lys Leu Thr Asp Leu Pro Met Met
 35 40 45
 Thr Ala Arg Arg Leu Asn Ser Gly Ser Arg Leu Ala Val Asp Leu Gly
 50 55 60
 Leu Met Met Leu Arg Lys His Arg Ile Asp Ala Val Val Tyr Ser Ser
 65 70 75 80
 Arg His Gly Glu Leu Glu Arg Asn Phe Arg Ile Leu Gln Ala Leu Ala
 85 90 95
 Ala Glu Gln Pro Val Ser Pro Thr Asp Phe Ala Met Ser Val His Asn
 100 105 110
 Ser Ala Val Gly Asn Leu Thr Ile Ala Ala Arg Gln Pro Val Val Ser
 115 120 125
 Ser Ser Val Ser Ala Gly Met Asp Thr Phe Gln Gln Ser Leu Cys Asp
 130 135 140
 Val Leu Ser Leu Leu His Ala Gly Tyr Ser Arg Val Leu Leu Val Asp
 145 150 155 160
 Phe Asp Gly Leu Leu Pro Asp Phe Tyr His Ala Gly Leu Pro Pro Gln
 165 170 175
 Met Pro Val Trp Pro Tyr Ala Leu Ala Leu Val Ile Glu Ala Gly Asn
 180 185 190
 Thr Leu Ser Cys Glu Thr His Val Asn Arg Thr Pro Glu Glu Pro Ala

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<210> 11179
<211> 273
<212> PRT
<213> Enterobacter cloacae
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<210> 11180
<211> 253
<212> PRT
<213> Enterobacter cloacae
```

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<400> 11180
Lys Pro Ser Ala His Arg Leu Ser Asn Leu Arg Arg Ala Asn Arg Glu
1          5          10          15
Thr His His His Arg Leu His His Ser Gly Gly Gly Gly Arg Ser Lys
          20          25          30

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Pro Gly Asp Val Leu Cys Gln Pro Gly His Ser Val Arg Thr His Gly
      35      40      45
Asp Arg Ala Met Lys Trp Ile Thr Leu Leu Ala Leu Leu Val Ser Pro
      50      55      60
Leu Val Asn Ala Val Thr Leu Asp Glu Leu Gln Gln Arg Phe Ala Glu
      65      70      75      80
Gln Pro Val Val Arg Ala His Phe Glu Gln Ile Arg Thr Ile Lys Asp
      85      90      95
Met Pro Gln Pro Leu Arg Ser Gln Gly Glu Met Leu Ile Ala Arg Asp
      100      105      110
Asn Gly Leu Leu Trp Asp Gln Lys Ala Pro Phe Pro Met Thr Leu Leu
      115      120      125
Leu Asp Asp Lys Arg Met Val Gln Ile Val Asn Gly Gln Ser Pro Gln
      130      135      140
Thr Ile Thr Ala Asp Thr Asn Pro Gln Met Phe Gln Phe Asn His Leu
      145      150      155      160
Leu Arg Ala Leu Phe Gln Ala Asp Arg Lys Val Leu Glu Glu Asn Phe
      165      170      175
Arg Ile Asp Phe Lys Asp Leu Gly Glu Gly Arg Trp Ser Leu Val Leu
      180      185      190
Thr Pro Val Thr Thr Pro Leu Asp Lys Ile Phe Ser Thr Leu Asp Leu
      195      200      205
Lys Gly Ala Ile Tyr Leu Glu Ser Ile Arg Leu Asn Asp Lys Gln Gly
      210      215      220
Asp Thr Thr Asp Ile Ala Leu Ser Arg His Gln Leu Thr Pro Ala Arg
      225      230      235      240
Leu Thr Asp Ala Glu Arg Gln Arg Phe Ala Ala Pro
      245      250

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<210> 11181

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 11181

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Gln Arg Glu Leu Thr Met Thr Arg Phe Ile Arg Leu Ala Ala Val Met
1      5      10      15
Met Ala Leu Leu Leu Ala Gly Cys Ser His Thr Thr Asn Arg Asp Asp
      20      25      30
Ala Arg Pro Gln Ala Trp Leu Gln Pro Gly Thr Arg Val Thr Leu Pro
      35      40      45
Pro Pro Gly Ile Thr Pro Ala Ile Arg Ala Gln Gln Leu Leu Thr Gly
      50      55      60
Ser Phe Lys Gly Gln Thr Gln Ser Leu Leu Val Met Leu Asn Ala Asp
      65      70      75      80
Gly Asn Lys Val Thr Leu Ala Gly Leu Ser Tyr Val Gly Ile Arg Leu
      85      90      95
Phe Leu Ala Thr Tyr Asp Asp Thr Gly Ile His Ile Glu Gln Ser Val
      100      105      110
Val Met Pro Gln Leu Pro Pro Ala Ser Gln Val Leu Ala Asp Val Met
      115      120      125
Leu Ser His Trp Pro Leu Ser Ala Trp Gln Pro Gln Leu Pro Lys Gly
      130      135      140
Trp Thr Leu Asn Asp Thr Asp Thr Arg Arg Glu Leu Arg Asn Pro Asp
      145      150      155      160
Gly Lys Leu Val Thr Glu Ile Val Tyr Leu Asn Arg Asn Gly Arg Arg
      165      170      175
Glu Pro Ile Ser Ile Val Gln His Ala Phe His Tyr His Ile Thr Ile
      180      185      190
Gln Tyr Leu Gly Asp
      195

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<210> 11182
 <211> 224
 <212> PRT
 <213> Enterobacter cloacae

<400> 11182
 Asp Val Phe Met Thr Asn Met Ile Ala Asp Glu Ala Val Ala Lys Ser
 1 5 10 15
 Ser Val Leu Ser Val Phe Asp Phe Asp Gly Thr Leu Thr His His Asp
 20 25 30
 Ser Phe Ile Pro Phe Leu Arg Phe Ala Phe Gly Lys Arg Tyr Phe Ala
 35 40 45
 Gly Arg Leu Val Arg Met Ala Leu Pro Thr Leu His Cys Val Arg Arg
 50 55 60
 Lys Leu Thr Arg Asp Glu Leu Lys Glu Val Leu Ile Lys Thr Phe Leu
 65 70 75 80
 Thr Gly Val Asp Glu His Trp Leu Arg Gln Gln Ala Glu Ala Phe Cys
 85 90 95
 Glu Lys Tyr Trp Asn Lys Leu Met Arg Pro Glu Gly Val Leu Ala Val
 100 105 110
 Ala Asn Glu Val Asn Ser Gly Ala Glu Val Thr Ile Cys Ser Ala Ser
 115 120 125
 Pro Ala Leu Val Leu Gln Pro Trp Ala Asp Lys Leu Gly Ile Lys Leu
 130 135 140
 Ile Gly Thr Gln Leu Glu Val Lys Asp Gly Lys Leu Thr Gly Arg Ile
 145 150 155 160
 Thr Gly His Asn Cys Arg Cys Ala Gln Lys Val Ala Arg Leu Glu Lys
 165 170 175
 Val Tyr Gly Asp Leu Asn Ala Tyr His Leu Arg Ala Trp Gly Asp Thr
 180 185 190
 Arg Gly Asp His Glu Leu Leu Ala Ala Ala Gln Asp Pro His Trp Arg
 195 200 205
 His Phe His His Pro Ser Lys Arg Arg Asn Ser Pro Ile Lys Gly
 210 215 220

<210> 11183
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (174)

<400> 11183
 Asn Lys Arg Ile Ala Ile Met Tyr Gly Asn Asn Glu Ile Val Ser Tyr
 1 5 10 15
 Leu Gln Ala Asn Lys Ile Leu Ala Leu Lys Leu Asp His Ala Val Thr
 20 25 30
 Ala Val Gly Gln Asn Val Lys Thr Gln Val Asn Met Ile Gly Lys Gly
 35 40 45
 Ala Thr Arg Leu Leu Tyr Tyr Ala Ser Cys Phe Thr Asp Glu Tyr Asn
 50 55 60
 Asp Val Cys Leu Arg Gln Lys Ser Glu Asp Leu Arg Phe Arg Asp Ala
 65 70 75 80
 Val Tyr Lys Leu Val Ser Gly Val Asp Val Val Tyr Glu Met Leu Arg
 85 90 95
 Leu Tyr Phe Glu Glu Val Phe Lys Tyr Lys Asn Pro Lys Gln Leu Glu
 100 105 110
 Tyr Ile Lys Gln Arg Leu Met Ala Val Asn Val His Ile Ala Ala Val

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<210> 11184
<211> 244
<212> PRT
<213> Enterobacter cloacae
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<210> 11185
<211> 79
<212> PRT
<213> Enterobacter cloacae
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Ala	Arg	Leu	Ala	Gly	Asp	Ser	Ile	Tyr	Pro	Cys	Ala	Ser	Ala	Glu	Asp
1				5					10					15	
Ala	Thr	Val	Asn	Val	Val	Thr	Ala	Ser	Ala	Ile	Leu	Glu	Ser	Phe	Ile
			20					25					30		
His	His	Pro	Leu	Ile	Arg	Ile	Glu	Gln	Gly	Ser	Val	Ser	Leu	Leu	Met
		35					40					45			
Glu	Trp	Arg	Met	Arg	His	Phe	Pro	Glu	Arg	Val	Lys	Met	Val	Glu	Ile
	50					55					60				
Lys	Lys	Gly	Ser	Gln	Ser	Cys	Leu	Leu	Phe	Leu	Glu	Ile	Asn		
65					70					75					

<210> 11186

<211> 373

<212> PRT

<213> Enterobacter cloacae

<400> 11186

Thr	Lys	Glu	Arg	Thr	Met	Pro	Val	His	His	Ala	Ile	Trp	Arg	Ile	Gly
1				5				10						15	
Glu	His	Pro	Gln	Pro	Leu	Thr	Ile	Ser	Lys	Leu	Ala	Ser	Glu	Gln	Leu
			20					25				30			
Leu	Glu	Lys	Met	Ile	Leu	Asn	Asp	Pro	Thr	Ile	Leu	Ser	Asp	Gln	Trp
		35					40					45			
Met	Ile	Ile	Gly	His	Gln	Glu	Asn	Thr	Leu	Asp	Lys	Gly	Arg	Ile	Asp
	50					55				60					
Leu	Leu	Ala	Ile	Ala	Pro	Asp	Ala	Ser	Leu	Ile	Leu	Ile	Glu	Leu	Lys
65					70				75					80	
Arg	Asp	Arg	Thr	Pro	Arg	Glu	Val	Val	Ala	Gln	Ala	Leu	Asp	Tyr	Ala
			85					90						95	
Ser	Trp	Val	Asp	Asp	Leu	Thr	Ala	Asp	Arg	Leu	Ser	Gln	Ile	Tyr	Glu
		100						105					110		
Lys	Phe	Ser	Gly	Gly	Gly	Asn	Leu	Gly	Ser	Ala	Phe	Lys	Gln	Arg	Phe
		115					120					125			
Asn	Thr	Glu	Leu	Glu	Glu	Glu	Ser	Leu	Asn	Gln	Ser	His	Gln	Ile	Ile
	130					135					140				
Ile	Val	Ala	Ala	Glu	Leu	Asp	Pro	Ser	Thr	Glu	Arg	Ile	Val	Asp	Tyr
145					150					155				160	
Leu	Ser	Lys	Asn	Gly	Ile	Ser	Ile	Asn	Val	Leu	Phe	Phe	Lys	Val	Phe
			165					170						175	
Gln	His	Gly	Asp	Glu	Gln	Phe	Leu	Ser	Arg	Ala	Trp	Leu	Ile	Asp	Pro
		180						185					190		
Ser	Glu	Thr	Gln	Thr	Asn	Ala	Ala	Gln	Ala	Thr	Ala	Gly	Thr	Ser	Ala
		195					200					205			
Asn	Ala	Lys	Glu	Pro	Trp	Asn	Gly	Glu	Phe	Tyr	Val	Ser	Phe	Gly	Asp
	210					215				220					
Pro	Gln	Ser	Arg	Val	Trp	Glu	Glu	Ala	Arg	Arg	Tyr	Gly	Phe	Ile	Ser
225					230					235				240	
Ala	Gly	Gly	Gly	Ser	Trp	Tyr	Ser	Gln	Thr	Leu	Lys	Gln	Leu	Gln	Pro
				245				250						255	
Gly	Asp	Arg	Val	Trp	Val	Lys	Ile	Pro	Ala	Thr	Gly	Tyr	Val	Gly	Val
		260						265					270		
Gly	Ile	Val	Gln	Ser	Ala	Val	Glu	Pro	Ala	Ser	Ser	Phe	Thr	Ile	Lys
		275					280					285			
Thr	Glu	His	Gly	Glu	Met	Pro	Ala	Ile	Asp	Val	Leu	Lys	Tyr	Ser	Asp
	290					295					300				
Leu	Tyr	Arg	Gln	Asn	Ala	Asp	Asp	Pro	Asp	Lys	Ser	Glu	Tyr	Phe	Val
305					310					315					320
Pro	Val	Lys	Trp	Leu	Glu	Thr	Arg	Ser	Glu	Leu	Glu	Ala	Val	Asn	Glu
				325					330					335	
Val	Gly	Phe	Phe	Gly	Asn	Gln	Asn	Thr	Val	Cys	Lys	Pro	Thr	Thr	Pro
			340					345						350	

Lys Trp Arg Phe Thr Val Glu Lys Leu Lys Arg Tyr Phe Thr Gln Trp
 355 360 365
 Asp Thr Glu Lys
 370

<210> 11187
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 11187
 Val Asp Leu Met Thr Leu Thr Asn Arg Thr Lys Thr Ile Leu Arg Trp
 1 5 10 15
 Gly Gly Ile Cys Ile Val Ser Val Gly Tyr Phe Leu Gly Leu Phe Val
 20 25 30
 Ala Ser Gln Ala Phe Ala Val Phe Ser Glu Asn Gln Thr Leu Val Ser
 35 40 45
 Asn Pro Val Pro Leu Arg Glu Tyr Tyr Gln Ala Val Asp Ser Leu Gly
 50 55 60
 Gln Ala Thr Ser Gly Val Phe Asp Ala Ala Ile Tyr Gly Phe Val Ile
 65 70 75 80
 Ser Val Pro Leu Ile Leu Leu Ile Phe Lys Lys Val Arg
 85 90

<210> 11188
 <211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 11188
 Phe Arg Val Cys His Gly Ser Ile Leu Phe Lys Val Arg Gln Ile Leu
 1 5 10 15
 Leu Phe Ser His Thr Asp Gly Phe Ala Ser Thr Phe Val Gly Lys Ile
 20 25 30
 Cys Glu Thr Gly Leu Gln Met Asn Asn Tyr Thr Tyr Lys Val Asn Phe
 35 40 45
 Asn Ser Ile Ser Gly Ile Arg His Val Arg Ile Lys Cys Leu Ile Cys
 50 55 60
 Thr Arg Asn Thr Phe
 65 70

<210> 11189
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 11189
 Pro Tyr Thr Gly Ile Ile Lys Met Asn Lys Leu Ile Phe Leu Val Leu
 1 5 10 15
 Phe Ser Thr Ala Ala Leu Gly Ala Glu Asp Phe Gln Ile Pro Met Gln
 20 25 30
 Arg Ala Leu Glu Phe Asn Arg Trp Tyr Val Lys Gln Val Asn Asn Asp
 35 40 45
 Arg Tyr Pro Ile Gln Gln Gly Asn Glu Ile Asp Glu Phe Val Thr Ala
 50 55 60
 Ser Thr Met Lys Lys Leu Arg His Ala Asp Asp Pro Arg Tyr Ala Asp
 65 70 75 80
 Ala Glu Phe Tyr Glu Ala Asp Phe Phe Met Lys Ser Gln Tyr Ile Gly
 85 90 95
 Glu Asp Trp Ala Glu Asn Val Ala Ile Asp Ser Tyr Asp Ser Asp Pro
 100 105 110

Val Cys Val Asn Val Asn Ile Thr Phe Gly Lys Lys Thr Gln His Thr
 115 120 125
 Val Ile Asp Cys Met Phe Lys Glu Asp Gly Val Trp Lys Ile Gln Ser
 130 135 140
 Val Ala Ala Arg Asp Asn Asn
 145 150

<210> 11190
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 11190
 Ser Ala Pro Arg Trp Cys Ile Ser Lys Leu Ile Ile Tyr Ser Glu Arg
 1 5 10 15
 Ile Asn Ile His Lys Glu Pro Phe Ala Leu Ser Lys Ala Cys Ile Lys
 20 25 30
 Ser Leu Asp Pro Lys Ser Glu Leu Arg Ile Met Pro Asp Asn Leu Pro
 35 40 45
 Gly Gly Ser Met Val Lys Arg Val Arg His Asn Val Leu Pro Arg Leu
 50 55 60
 Lys Ser Asp Ala Gly Leu Pro Phe Phe Phe Pro Leu Leu Asn Leu Phe
 65 70 75 80
 Pro Glu Pro Leu Ile
 85

<210> 11191
 <211> 166
 <212> PRT
 <213> Enterobacter cloacae

<400> 11191
 Pro His Gln Leu Phe Leu Lys Gln Val Glu Gly Pro Met Lys Gln Tyr
 1 5 10 15
 Thr Asn Lys Leu Thr Pro Glu Met Leu Ala Ala Phe Asp Glu Ser Pro
 20 25 30
 Phe Thr Ala Glu Gln Leu Ala Gly Met Asn Asp Glu Ala Ser Ser Leu
 35 40 45
 Ile Glu Lys Gln Asn Ala Tyr Asn Leu Ala His Pro Val Thr Ala Ala
 50 55 60
 Tyr Leu Ile Ala Thr Glu Gly Ser Leu Thr Arg Asn Gly Gly Lys Val
 65 70 75 80
 Phe Ser Glu Tyr Asn Gly Arg Gln Ile Lys Leu Asp Asp Gly Thr Met
 85 90 95
 Leu Asn Val Ser Arg Val Gly Asp Glu Val Arg Tyr Pro Asp Gly Thr
 100 105 110
 Ser Ala Lys Ile Thr Thr Gly Ala Gly Asn Thr Pro Gly Glu Ser Ile
 115 120 125
 Ala Leu Val Gly Ser Ser Leu Asp Asn Gly Asp Glu Ile Ile Ser Cys
 130 135 140
 Pro Gln Asn Ala Gly Arg Arg Val Val Arg Ala Gly Glu Ser Leu Pro
 145 150 155 160
 Glu Asn Phe Leu Lys
 165

<210> 11192
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 11192

Val Val Gly Arg Ser Thr Phe Ala Gly Gln Gly Ile Lys Gly Arg Ser
 1 5 10 15
 Pro Ala Gly Ala Ala Lys Ala Glu Ala Pro Ser Ile Ser Pro Ala Val
 20 25 30
 Lys Arg Leu Tyr Arg Asn Met Asn Val Pro Tyr Leu Thr Gly Gln Ile
 35 40 45
 Gln Ala Lys His Ser Val Asn Met Arg Ser Asn Cys Arg Gln Ala Asn
 50 55 60
 Ala Pro Thr Glu Ile Thr Gly Cys
 65 70

<210> 11193

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 11193

Pro Thr Asn Arg Glu Tyr Tyr Leu Ser Asn Tyr Lys Gly Glu Tyr Met
 1 5 10 15
 Arg Asp Lys Phe Ile Asp Ala Ile His Ser Arg Ser Lys Ile Met Leu
 20 25 30
 Thr Phe Tyr Ser Lys Glu Asp Asn Ala Thr Ile Thr Arg Leu Thr Ala
 35 40 45
 Pro Met Asp Phe Gly Pro Ser Arg Arg Ala His Asp Lys Ser Asp Arg
 50 55 60
 Phe His Phe Trp Asp Tyr Glu Ser Asp Lys Lys Asn His Val Leu Ser
 65 70 75 80
 Leu Arg Pro Glu Ala Ile Lys Ser Leu Val Val Ile Ala Gln Asn Phe
 85 90 95
 His Pro Gln Glu Phe Val Asn Trp Thr Pro Asn Trp Phe Ile Pro Arg
 100 105 110
 Asp Trp Asp Gln Tyr Ser
 115

<210> 11194

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 11194

Asn Lys Ala Val Thr Met Ala Ser Val Asn Arg Gly Cys Thr Val His
 1 5 10 15
 Gly Lys Asn Val Gly Leu His Gly Asp Lys Thr Ser Thr Gly Ala Gln
 20 25 30
 Cys Ile Ala Ala Arg Pro Gly Met Ser Val Met Gly Leu Trp Lys Leu
 35 40 45
 Tyr Ile Gly Asp Lys Thr Thr Pro Cys Pro Lys Cys Gly Lys Val Gly
 50 55 60
 Val Ile Val Ser Gly Asp Pro Arg Cys Ser Asn Ser Val Ala Val Ala
 65 70 75 80
 Val Asp Gly Ala Glu Ile Leu Cys Gly Cys Pro Gln Gly Thr Asn Phe
 85 90 95
 Leu Ile Ala Pro Gly Thr Val Glu Val Asn Thr Pro Ser Trp Thr Ile
 100 105 110
 Ala Pro Gly Glu Pro Val Gln His Ala Gln Ala Ala Lys Lys Gln Asn
 115 120 125
 Ser Phe Thr Asp Thr Cys Lys Pro Glu Asp Asn Pro Leu Leu Asn Gly
 130 135 140
 Val Tyr Ile Trp Thr Glu Thr Thr Asp Ala Gly His Ala Phe Val Ser
 145 150 155 160
 Val His Gln Asp Asn Ser Ile Tyr Leu Tyr Thr Tyr Gly Arg Tyr Gly

				165					170					175			
Arg	Thr	Gly	Pro	Gly	Asn	Leu	Thr	Gly	Asp	Gly	Ile	Leu	Asn	Phe	Leu		
			180					185					190				
Gln	Gly	Glu	Asp	Ala	Arg	Val	Tyr	Tyr	Arg	Ala	Glu	Leu	Tyr	Arg	Met		
		195					200					205					
Gly	Ala	Arg	Ala	Phe	Arg	Ile	Asp	Asp	Ala	Asp	Pro	Thr	Lys	Thr	Arg		
	210					215					220						
Gln	Phe	Phe	Glu	Asp	Leu	Trp	Asn	Lys	Gly	Glu	Pro	Ala	Ile	Arg	Thr		
225					230					235					240		
Ser	Glu	Met	Lys	Glu	Thr	Thr	Gln	Arg	Arg	Gly	Arg	Thr	Ile	Asp	Glu		
			245						250					255			
Tyr	Asp	Val	Thr	Gly	Asn	Asn	Cys	Thr	Thr	His	Ser	Val	Glu	Gly	Ile		
		260						265					270				
Lys	Phe	Ala	Gly	Ser	Arg	Val	Phe	Glu	His	Asn	Tyr	Thr	Ser	Thr	Thr		
	275						280					285					
Thr	Gln	Ile	Pro	Ile	Glu	Ser	Ala	Glu	Asp	Phe	Thr	Ile	Pro	Val	Ser		
	290					295					300						
Leu	Gln	Arg	Tyr	Leu	Glu	Ser	Lys	Ser	Ser	Asp	Phe	Ser	Ser	Met	Thr		
305					310					315					320		
Val	Val	Glu	Met	Thr	Gly	Glu	Phe	Lys	Lys	Met	Tyr	Pro	Asn	Lys	Asp		
			325						330					335			
Asn	Leu	Pro	Arg	Tyr	Gln	Glu	Ser	Pro	Lys	Gly	Lys	Val	Gln	His	Ile		
		340						345					350				
Ala	Ala	Glu	Ala	Ala	Ala	Thr	Gly	Asp	Ser	Leu	Ser	Gln	Tyr	Ser	Ser		
	355					360						365					
Gly	Thr	Phe	Gly	Gly	Val	Leu	Gly	Gly	Ser	Tyr	Asp	Val	Asp	Glu			
	370					375					380						

<210> 11195

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 11195

Gly	Arg	Gly	Lys	Leu	Leu	Gly	Asp	Lys	Met	Trp	Thr	Glu	Pro	Lys	Arg		
1				5				10					15				
Pro	Ala	Gln	Pro	Val	Gln	Gln	Ala	Gln	Thr	Leu	Ile	Lys	Gly	Gly	Thr		
		20						25					30				
Leu	Asn	Ser	Val	Ala	Ala	Ile	Met	Val	Arg	Asp	Asp	Ile	Lys	Pro	Met		
	35						40					45					
Ile	Ala	Leu	Asp	Phe	Ile	Ala	Arg	Leu	Gly	Tyr	Ile	Leu	Pro	Cys	His		
	50					55					60						
Asp	Val	Val	His	Ala	Val	Gly	Ser	Asp	Tyr	Ala	Leu	Cys	Gly	Asp	Gly		
65					70				75					80			
Ser	Ile	Gly	Gln	Val	Lys	His	Gln	Lys	His	Leu	Ala	Ala	Ala	Leu	Arg		
			85					90						95			
Thr	Gly	Lys	His	Arg	Trp	Asn	Phe	Lys	Arg	Arg	His	His	Leu	Ser	Gly		
		100						105					110				
Ile	Gln	Cys	Glu	Cys	Leu	Ile	Arg	Ile	Ala	Lys	Gly	Trp	Ala	Leu	Lys		
		115					120					125					
Ser	Ala	Pro	Ala	Gly	Leu	Ser	Leu	Arg	Ile	Ala	Gly	Glu	His	His	Arg		
	130					135					140						
Ile	Phe	Asp	Val	Arg	Asn	Arg	Cys	Lys									
145						150											

<210> 11196

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 11196

His Glu Leu Ile Asn Asn Leu Thr Arg Gln Glu Cys Asp Pro Asp Leu
 1 5 10 15
 His Leu Arg His Arg Arg Lys Thr Cys Leu Arg His Ile Ala Leu Asn
 20 25 30
 Lys Tyr Glu Asn Lys Ile Met Lys Lys Ile Lys Thr Ala Thr Ala Ala
 35 40 45
 Met Val Leu Ser Ala Leu Ser Phe Gly Val Phe Ala Ala Asp Asn Thr
 50 55 60
 Gln Pro Ala Asn Asp Val Asn Ser Pro Ile Gly Ile Ala Lys Ala Ser
 65 70 75 80
 Asp Val Glu Ala Gly Ser Asn Ile Ala Pro Gly Thr Gln Ser Thr Gly
 85 90 95
 Gln Ser Met Asn Asp Ala Phe Asp Val His Lys Leu Val Ala Gly Glu
 100 105 110
 Trp Ser
 115

<210> 11197

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 11197

Asn Ile Phe Arg Gly Phe Leu Tyr Arg Ile Ala Arg Leu Thr Ile Phe
 1 5 10 15
 Arg Gln Gln Asp Ala Leu Ala Lys Arg Arg Lys Val Gln Arg Met Gly
 20 25 30
 Cys His Met Lys Leu Glu Ser Leu Ala Leu Thr Arg Asp Leu Leu His
 35 40 45
 Asp Pro Ile Ala His Asp Gly Phe Pro Gly Gly Phe Arg Arg Asn Pro
 50 55 60
 Gly Glu Gln Arg Pro Glu Arg Leu Met Arg Arg Gly Lys Thr Arg Gln
 65 70 75 80
 Val Val Leu Pro Glu Arg Gln Arg Phe Ser Gln Leu Gln Gly Thr Gly
 85 90 95

<210> 11198

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11198

Ile Val Asn Ile Phe Thr Thr Ser Gly Ala Leu Pro His Glu Asn Lys
 1 5 10 15
 Lys Glu Tyr Ala Glu Ala Lys Tyr Asn Ser Gly Ile Val Ile Ala Arg
 20 25 30
 Glu Ile Tyr Arg Ser Phe Thr Pro Cys Ser Arg Ala Lys Arg Ala Glu
 35 40 45
 Met Val Gln Ile Leu His Arg Trp His Tyr Leu Ser Gln
 50 55 60

<210> 11199

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 11199

Asp Leu Ser Leu Arg Phe Ile Ala Cys Tyr Tyr Ser Glu Ser Ile Leu
 1 5 10 15

Thr Leu Lys Ser Ala Ile Ile Ile Ser Asn Gly His Phe Phe Val Leu
 20 25 30
 Phe Cys Tyr Lys Gln Val Pro Ala Asp Glu Tyr Ser Ala Ile Phe Tyr
 35 40 45
 Ser Pro Leu Gln Thr Ser Thr His Thr Asn Glu Ser Ile Trp Leu
 50 55 60

<210> 11200

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11200

Arg Gly Ala Val Ala Arg Pro Ser Gln Val Arg Leu Glu Pro Glu Ser
 1 5 10 15
 Pro Asn Val Phe Gln Asp Ser Ile Lys Gln Leu Gln Tyr Ser Asn Asn
 20 25 30
 Glu Phe Glu Asp Lys Tyr Asp His Ile His Asp Ala His Thr Arg Leu
 35 40 45
 Leu Leu Val Lys Arg Ser Thr Met Leu Ala Tyr Leu Ser Ala Ala Cys
 50 55 60
 Gly Gln His Leu Asp
 65 70

<210> 11201

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 11201

Arg Gly Asn Ala Met Ser Arg Leu Leu Ile Glu Pro Val Thr Pro Asp
 1 5 10 15
 Glu Pro Gly Tyr Ile Ala Leu Lys Ala Glu Ser Ile Ala Leu Asn Phe
 20 25 30
 Asn Met Leu Arg Arg Leu Glu Glu Asn Trp Gln Arg Gly Glu Asn Arg
 35 40 45
 Phe Asn Ala Pro Gly Glu Lys Leu Leu Gly Ala Phe Leu Asn Gly Arg
 50 55 60
 Leu Val Gly Val Cys Gly Leu Asn Arg Asp Pro Phe Ser Gln Gln Pro
 65 70 75 80
 Arg Ala Gly Arg Ile Arg His Leu Tyr Val Ser Glu Lys Cys Arg Gly
 85 90 95
 Gln Gly Ile Gly Lys Gln Leu Leu Thr Val Val Met Ala Asp Ala Ser
 100 105 110
 Ile Trp Phe Asp Phe Leu Asn Thr His Ala Pro Glu Thr Ala Tyr Gly
 115 120 125
 Phe Tyr His Arg Ala Gly Phe Arg Leu Val Ser Asp Glu Pro Arg Val
 130 135 140
 Thr His Arg Leu Phe Cys Ala Val
 145 150

<210> 11202

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 11202

Leu Pro Ser Lys Met Pro Ser Thr Arg Ala Ser Arg Ile Cys Gln Ala
 1 5 10 15
 Arg Leu Thr Phe Lys Phe Phe Ile Glu Thr Asp Phe Leu Asn Glu Ile
 20 25 30

Ser Ala Pro Ser Lys Leu His Glu Tyr Gly Asp Ile Leu Lys Gly Tyr
 35 40 45
 Glu Leu Cys Cys Val Gly Leu Trp Asp Phe Leu Thr Arg Arg Met Ser
 50 55 60
 Ile Ile Cys Thr Ala Cys Cys Ala Ser Leu Lys Glu Gln Gly Ile Ser
 65 70 75 80
 Leu Gln Lys Val Ser Leu Ser Val Ile Tyr Ser Asn Ser His Lys
 85 90 95

<210> 11203

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 11203

Arg Pro Ala Ala Ile Ala Pro Cys Arg Asp Thr Arg Ser Ala His Cys
 1 5 10 15
 Val Ala Thr Arg Phe Arg Pro Gly Ile Gly Cys Ser Arg Leu Ile Cys
 20 25 30
 His Lys Lys Gly Asp Ser Asp Ala Asn His Arg Lys Phe Lys Met Phe
 35 40 45
 Phe His Ser Val Leu Val Asn Ser Leu Leu Leu Val Asn Pro Val Cys
 50 55 60
 Tyr His Pro Asn Arg Asn Glu Leu Leu Leu
 65 70 75

<210> 11204

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 11204

Leu Glu Cys Leu Asn Ala Trp Leu Phe Val Gln Pro Thr Thr Cys Ser
 1 5 10 15
 Ala Ile Leu Thr Glu Gln Met Ala Thr Leu Trp Arg Gln Thr Asp Ser
 20 25 30
 Glu Cys Gly Thr Leu Phe Tyr Gln His His Val Ile Leu Ala Val Asp
 35 40 45
 Gln Val Leu Thr Asp Gly Gly Asp Leu Asp Met Asn Leu Cys Phe Val
 50 55 60
 Thr Lys Leu Phe Asp Asp Leu Asn Phe Thr Phe Gln Arg His Ile Arg
 65 70 75 80
 Asn Val Ala Trp Gln
 85

<210> 11205

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11205

Leu Glu Glu Leu Tyr Ser Pro Ala Glu Lys Met Thr Asn Gln Pro Gly
 1 5 10 15
 Gln Met Ser Pro Gln Arg Gly Asn Leu Met Ser His Gln Gln Ile Ile
 20 25 30
 Gln Thr Leu Ile Glu Trp Ile Asp Glu His Ile Asp Gln Pro Leu Asn
 35 40 45
 Ile Asp Val Val Ala Lys Lys Ser Gly Tyr Ser Lys Gly Ile Tyr Arg
 50 55 60
 Glu Cys Ser Ala Pro
 65 70

<210> 11206
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 11206
 Ser Gly Val Gly Ala Glu Ala Arg Ala Thr Thr Val Leu Leu Ser Glu
 1 5 10 15
 Asn Asn Lys Gln Ala Ala Leu Ser Ala Ser Val Ile Leu Arg Ile Phe
 20 25 30
 Ser Pro Glu Tyr Ser Val Cys Tyr Leu Phe Ile Leu Ser Gly Trp Ser
 35 40 45
 Lys Asn Tyr Pro Thr Ile Thr Pro Ala Gly Gly Glu Gly Lys Glu Phe
 50 55 60
 Leu Leu Ile Lys Arg Asn Lys Lys Lys Thr Ile Thr Lys Cys Gly
 65 70 75 80

<210> 11207
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 11207
 Gly Val Lys Thr Leu Thr Leu Ser Cys Ser Ala Lys Asn Thr Glu Ile
 1 5 10 15
 Arg Gln Ala Val Leu Tyr Leu Thr His Arg Lys Ser Gly Asp Arg Lys
 20 25 30
 Met Lys Arg Pro Asp Cys Ile Arg His Trp Arg Asp Val Glu Gly Ala
 35 40 45
 Asp Asp Ala Thr Tyr Pro Asp Ser Asn Glu Arg Phe Ser Ile Gly Ala
 50 55 60
 Pro Leu Ala Arg Lys Leu Gly Leu Gly Arg Ile Gly Ile His His Glu
 65 70 75 80
 Arg Leu Pro Pro Gly Arg Arg Thr Ser Tyr Pro His Ala Glu Ser Asp
 85 90 95
 Glu Glu Glu Phe Val Tyr Val Leu Glu Gly Tyr Pro Glu Ala Trp Ile
 100 105 110
 Asn Gly Tyr Phe Met Glu Ala Arg Thr Arg Arg Gln Arg Gly Ile Ser
 115 120 125
 Ser Arg Asp Gly Arg Val Ser His Leu Tyr Gln Gln Tyr Arg
 130 135 140

<210> 11208
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 11208
 Arg Glu Ile Val Met Lys Lys Val Leu Tyr Gly Ile Phe Ala Ile Ser
 1 5 10 15
 Ala Leu Ala Ala Thr Ser Val Tyr Ala Ala Pro Val Gln Val Gly Glu
 20 25 30
 Ala Ala Gly Ala Ala Ala Thr Ser Ala Ser Ala Gly Ser Ser Thr Ala
 35 40 45
 Ala Ser Thr Ser Ala Val Ser Ser Ala Val Gly Val Ala Leu Ala Ala
 50 55 60
 Thr Gly Gly Gly Asp Gly Ser Asn Thr Gly Thr Thr Thr Thr Thr
 65 70 75 80
 Thr Ser Thr Gln

<210> 11209
 <211> 162
 <212> PRT
 <213> Enterobacter cloacae

<400> 11209

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Lys Asp Leu Thr Val Phe Gly Thr Gly Gly Thr Trp Lys Ala Leu Met
1      5      10
Thr Gln Arg Ile Leu Thr Ala Thr Asn Val Phe Leu Leu Ala Arg Arg
20
Trp Pro Ala Asn Trp Val Ser Ala Ala Leu Val Phe Thr Met Asn Gly
35      40      45
Cys Arg Pro Asp Ala Ala His Leu Ile Arg Met Arg Lys Ala Thr Lys
50      55      60
Arg Ser Leu Phe Thr Phe Trp Arg Val Thr Leu Arg Pro Gly Ser Met
65      70      75      80
Gly Ile Leu Trp Lys Leu Glu Pro Gly Asp Ser Val Gly Phe Pro Ala
85      90      95
Gly Thr Gly Val Cys His Thr Phe Ile Asn Asn Thr Asp Glu Glu Val
100      105      110
Arg Leu Leu Val Val Gly Glu Ala Asn Lys Lys His Asn Arg Ile Tyr
115      120      125
Tyr Pro Leu Asn Pro Val Tyr Ala Ala Thr Arg Glu Asp Arg Trp Val
130      135      140
Asp His Pro Pro Gln Phe Phe Gly Pro His Asp Gly Lys Pro Gly Arg
145      150      155      160
Lys

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<210> 11210
 <211> 444
 <212> PRT
 <213> Enterobacter cloacae

<400> 11210

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Gln Thr Ile Tyr Glu His Thr Val Lys Lys His Phe Lys Phe Ser Met
1      5      10      15
Val Ser Ile Ala Val Ser Phe Phe Met Ala Asn Gln Ala Gly Ala Ala
20      25      30
Asn Thr Trp Thr Glu Ala Arg Ser Asp Ala Met Gly Gly Thr Gly Val
35      40      45
Ala Ala Gly Ser Tyr Gly Ser Gly Ala Leu Ile Asn Pro Ala Leu Leu
50      55      60
Ala Lys Ser Lys Pro Glu Asp Asp Val Thr Val Ile Leu Pro Ser Val
65      70      75      80
Gly Val Gln Val Thr Asp Glu Asp Asn Leu Gln Asp Glu Ile Asp Thr
85      90      95
Ile Asn Asp Lys Ile Asn His Tyr Lys Asp Val Val Asp Ser Leu Thr
100      105      110
Pro Ile Glu Val Ile Thr Asn Pro Leu Gly Ser Ile Asn Gln Phe Gln
115      120      125
Gly Ala Ala Lys Asp Leu Ala Asp Glu Leu Asp Tyr Leu Lys Gly Lys
130      135      140
Thr Ala His Ala Thr Ala Gly Ala Gly Ile Ala Val Ser Ile Pro Asn
145      150      155      160
Asp Val Leu Ser Val Ala Phe Met Ala Lys Gly Tyr Ala His Gly Arg
165      170      175
Val Ser Ser Ser Ile Asp Gln Gln Asp Ile Asp Tyr Leu Arg Gly Ile
180      185      190
Gln Arg Ser Asp Ala Val Ala Ala Gly Val Ala Leu Asp Ala Ala Leu

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<210> 11211
<211> 64
<212> PRT
<213> Enterobacter cloacae
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<210> 11212
<211> 133
<212> PRT
<213> Enterobacter cloacae
```

<400> 11212															
Leu	Phe	Ser	Ser	Ser	Arg	Met	Lys	Asn	Glu	Lys	Lys	Tyr	Val	Val	Ile
1				5					10					15	
Pro	Tyr	Gly	Glu	Tyr	Phe	Arg	Met	Arg	Leu	Ala	Met	Leu	Glu	Tyr	Asp
			20					25					30		
Asp	Asp	Asp	Glu	Asn	Asp	Trp	Glu	Asp	Ile	Pro	Tyr	Glu	Ser	Asp	Ile
		35					40					45			
Tyr	Asp	Asn	Val	Gly	Leu	Pro	Gly	Glu	Val	Cys	Asp	Ile	Met	His	Asn
	50					55					60				

Glu Asn Val Ser Leu Gln Ala Ala Trp Arg Ile Leu Arg Gly Met Ser
 65 70 75 80
 Gln Gln Glu Val Ala Glu Lys Leu Gly Ile Ser Gln Ser Ala Val Ser
 85 90 95
 Gln Leu Glu Ala Leu Asp Ser Arg Pro Gln Lys Arg Thr Arg Glu Lys
 100 105 110
 Leu Ala Ala Leu Tyr Gly Cys Lys Gln Glu Gln Ile Ser Leu Tyr Leu
 115 120 125
 Pro Lys Glu Gly
 130

<210> 11213

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 11213

Glu Asp Asn Ile Val Thr Leu Asp Pro Glu Thr Asp Leu Lys Leu Glu
 1 5 10 15
 Arg Val Val Asp Ala Pro Arg Asp Leu Leu Trp Leu Cys Trp Thr Thr
 20 25 30
 Pro Glu His Ile Lys Asn Phe Phe Ile Pro Ala Pro His Lys Val Thr
 35 40 45
 Glu Cys Asp Leu Asp Leu Arg Val Gly Gly Arg Phe Asn Thr Val Phe
 50 55 60
 Glu Val Asp Gly Gln Arg Met Asp Asn Arg Gly Val Phe Leu Glu Ile
 65 70 75 80
 Asp Pro Gly Lys Lys Leu Val Phe Thr Asp Gly Tyr Thr Glu Gly Trp
 85 90 95
 Lys Pro Ala Glu Lys Pro Phe Met Thr Ala Ile Leu Leu Leu Glu Asp
 100 105 110
 Ala Gly Glu Gly Lys Thr Arg Tyr Thr Ala Ile Ala Arg His Pro Thr
 115 120 125
 Lys Glu Ile Arg Glu Gln His Glu Gln Met Gly Phe His Glu Gly Trp
 130 135 140
 Gly Ile Val Leu Asp Gln Leu Val Gly Tyr Val Lys Gly Leu Asn Ala
 145 150 155 160

<210> 11214

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11214

Ile Glu Lys Thr Gln Ser Ala Ser Ala Thr Ala Pro Asp Gly Ile Thr
 1 5 10 15
 Ile Ser Phe Leu Asn Ile Cys Phe Pro Asp Trp Leu Gly Ala Ile Asn
 20 25 30
 Phe Trp Gly Leu Leu Lys His Lys Lys Arg Pro Gln Ala Leu Phe Gly
 35 40 45
 Tyr Gln Glu Phe Arg Leu Gly Ser Ala Gly Asn Gln His Phe Gly Gly
 50 55 60
 Asp Asn Asn Asp Asn Gln Ala Asn Gln His Arg His
 65 70 75

<210> 11215

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 11215

Ile	Ser	Leu	Lys	Pro	Leu	Leu	Phe	His	Ser	Phe	Ala	Cys	Leu	Tyr	Ser
1			5						10					15	
Val	His	Phe	Leu	Leu	Ser	Asp	Asp	Leu	Asn	Met	Tyr	Ala	Ser	Trp	Thr
			20					25					30		
Tyr	Arg	Leu	Arg	Phe	Ile	Lys	Lys	His	Leu	Leu	Met	Phe	Leu	Leu	Ala
		35					40					45			
Phe	Gly	Trp	Leu	Leu	Ile	Gln	Thr	Gln	Val	Ala	Val	Ala	Ser	His	Gln
	50					55				60					
Cys	Ser	Met	Asp	Leu	Arg	Gly	Glu	Val	Ala	Thr	Ile	Gln	His	Met	Glu
65					70				75					80	
Met	Met	Ala	Gln	Pro	Gly	Pro	His	Tyr	Ala	Ala	Gly	Ala	Ser	Pro	Leu
				85					90					95	
Cys	Glu	Lys	His	Cys	Val	Pro	Asp	Gln	Val	Gln	Lys	Asp	Pro	Ala	Gln
		100						105					110		
Pro	His	Leu	Val	Ala	Leu	Pro	Ala	Ala	Met	Thr	Leu	Thr	Leu	Thr	Pro
		115					120					125			
Pro	Glu	Cys	Ser	Ser	Ala	Ser	His	Ser	Ala	Trp	Ser	Val	Thr	Pro	Pro
	130					135					140				
Ala	Val	Gly	Pro	Pro	Ala	Thr	Ile	Arg	Tyr	Cys	Arg	Phe	Arg	Glu	
145					150					155					160

<210> 11216

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 11216

Met	Ser	Met	Leu	Pro	Thr	Pro	Glu	Tyr	Ser	Arg	Asn	Met	Arg	Leu	Ile
1			5						10					15	
Gly	His	Ser	Asp	Gln	Gly	Gly	Arg	Pro	Asp	Gly	Val	Gln	Leu	Met	Val
			20					25					30		
His	Arg	Gly	Phe	Ala	Tyr	Ile	Gly	His	Met	Val	Ser	Gln	Gly	Phe	Ser
		35					40					45			
Ile	Val	Asp	Val	Arg	Asp	Pro	Lys	Asn	Pro	Lys	Pro	Ala	Gly	Tyr	Val
	50					55					60				
Pro	Ala	Pro	Pro	Gly	Thr	Trp	Asn	Val	His	Leu	Gln	Ala	His	Asp	Asp
65				70					75					80	
Leu	Leu	Leu	Val	Ile	Asn	Ala	Arg	Asp	Leu	Phe	Ala	Asp	Ala	Arg	Phe
				85				90						95	
Ala	Asp	Glu	Lys	Val	Tyr	Tyr	Thr	Arg	Gln	Val	Gly	Glu	Thr	Val	Ser
			100					105					110		
Asp	Val	Gln	Asp	Arg	Gly	Trp	Ser	Ala	Gly	Leu	Arg	Val	Phe	Asp	Ile
		115					120					125			
Ser	Thr	Pro	Asp	Arg	Pro	Arg	Glu	Ile	Gly	Phe	Leu	Ser	Leu	Ser	Gly
	130					135				140					
Ile	Gly	Ile	His	Arg	Ile	Trp	Tyr	Val	Gly	Gly	Arg	Trp	Ala	Tyr	Val
145				150					155						160
Ser	Ala	Leu	Ile	Asp	Gly	Phe	Thr	Asp	Tyr	Ile	Phe	Leu	Thr	Ile	Asp
			165					170						175	
Leu	Ala	Asp	Pro	Arg	Lys	Pro	Glu	Val	Ala	Gly	Arg	Trp	Trp	Leu	Pro
			180					185					190		
Gly	Met	Asn	Gln	Ser	Ala	Gly	Glu	Gln	Pro	Asp	Trp	Pro	Glu	Gly	Lys
		195					200					205			
Arg	Tyr	Ala	Leu	His	His	Ala	Ile	Ile	Ala	Gly	Asp	Thr	Ala	Tyr	Gly
	210					215					220				
Ser	Trp	Arg	Asp	Gly	Gly	Leu	Thr	Leu	Leu	Asp	Val	Lys	Asp	Arg	Thr
225				230						235					240
Gln	Pro	Lys	Leu	Ile	Ser	His	Arg	Asn	Trp	Ser	Pro	Pro	Phe	Gly	Gly
				245					250					255	

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<210> 11217
<211> 293
<212> PRT
<213> Enterobacter cloacae
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<400>	11217														
Thr	Val	Ser	Ser	Val	Pro	Ala	Ser	Ala	Ser	Ser	Cys	Pro	Asn	Thr	Ile
1				5					10					15	
Pro	Asn	Thr	Met	Asn	Ser	Thr	Val	Val	Lys	Gly	Ala	Ala	Met	Asn	Met
			20					25					30		
Lys	Pro	Ile	Gly	Gly	Met	Leu	Leu	Leu	Met	Val	Ser	Thr	Phe	Ala	Phe
		35					40					45			
Ala	Gln	Gln	Ser	Phe	Ser	Thr	Pro	Glu	Gln	Ala	Ala	Asn	Ala	Leu	Thr
	50					55					60				
Lys	Ala	Ile	Ser	Glu	Gln	Asn	Glu	Ser	Ala	Met	Ala	Asp	Leu	Leu	Gly
65					70					75				80	
Asp	Asn	Trp	Arg	Asp	Tyr	Leu	Pro	Pro	Glu	Gly	Val	Asp	Pro	Glu	Ala
				85					90					95	
Val	Ala	Arg	Phe	Leu	Arg	Asp	Trp	Lys	Ile	Asn	His	Arg	Thr	Glu	Ile
			100					105					110		
Ser	Gly	Asp	Ile	Ala	His	Leu	Ser	Val	Gly	Asp	Asn	Gly	Trp	Gln	Leu
		115					120					125			
Pro	Ile	Pro	Val	Val	Lys	Lys	Lys	Glu	Gly	Trp	Gln	Phe	Asp	Met	Gln
	130					135					140				
Lys	Ala	Ala	Asp	Glu	Ile	Leu	Thr	Arg	Glu	Ile	Gly	Arg	Asn	Glu	Leu
145					150					155				160	
Ala	Ala	Ile	Glu	Ala	Leu	His	Ala	Tyr	Val	Asp	Ala	Gln	Arg	Ser	Tyr
				165					170					175	
Tyr	Ala	Met	Asn	His	Arg	Tyr	Ala	Gln	Lys	Ile	Val	Ser	Thr	Pro	Gly
			180					185					190		
Leu	Lys	Asp	Gly	Leu	Tyr	Trp	Pro	Ile	Ser	Pro	Gly	Glu	Ala	Pro	Ser
		195					200					205			
Pro	Leu	Gly	Pro	Ala	Phe	Ser	Pro	Pro	Glu	Pro	Gly	Met	Gly	Tyr	His
	210					215					220				
Gly	Tyr	Arg	Phe	Arg	Ile	Leu	Ser	Asp	Lys	Asn	Gly	Phe	Ala	Met	Val
225					230					235				240	
Ala	Trp	Pro	Val	Ser	Tyr	Gly	Gln	Thr	Gly	Val	Met	Ser	Phe	Val	Val
				245					250					255	
Asn	Gln	Glu	Asp	Lys	Val	Tyr	Gln	Ala	Asn	Leu	Gly	Asn	Asp	Ser	Ala
			260					265					270		

Gln Lys Ala Gln Ala Leu Ala Ala Tyr His Pro Asp Lys Thr Trp Gln
 275 280 285
 Pro Val Thr Pro
 290

<210> 11218
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 11218
 Arg Asp Asp Pro Gln His Ile Gly Arg Thr Gly Cys Gly Asn Leu Thr
 1 5 10 15
 Leu Ser Phe Leu Val Asp Asn Gly Val Glu Gln Gly Ile Lys Pro Gly
 20 25 30
 Phe Phe Arg Trp Ile Gly Lys Tyr Val Leu Thr Gln Leu Pro Thr Ile
 35 40 45
 Gln Gly Ala Val Ser Leu Tyr His Thr Ala Thr Lys Met Arg Phe Asp
 50 55 60
 Gly Val
 65

<210> 11219
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11219
 Cys Arg Lys Ile Ser Ser Gly Lys Cys Ala Arg His Ile Pro Ala Asn
 1 5 10 15
 Gly Gln Pro Val Gly Leu Leu Ser Glu Ala Pro Ala Gly Phe Lys Gly
 20 25 30
 Tyr Cys Trp Phe Ser Leu Gln Ser Ser Leu Ser Glu Arg Ser Pro Ser
 35 40 45
 Leu Gly Met Arg Phe Ser Ser Ala Ala His Ser Pro Arg Ser Ile Ser
 50 55 60

65

<210> 11220
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 11220
 Ala Gly Asp Gly Asn Ser Glu Gly Arg Ser Cys Glu Arg Pro Ala Ala
 1 5 10 15
 Arg Cys Arg Arg Gly Asp Asp Arg Leu Thr Glu Leu Leu Pro Gly Pro
 20 25 30
 Val Thr Gly Cys Tyr Ile Met Leu Asn Asp Ser Ala Asn Phe Leu Met
 35 40 45
 Leu Leu Phe Cys Lys Gln Ile Asn Thr Val Gln Lys Ser Cys Tyr Ala
 50 55 60
 Ala Arg Arg Gly Ile Gly His Leu Pro Tyr Lys Leu Leu Ser His Arg
 65 70 75 80
 Ser Val Lys Arg Thr Pro Ala Ala Tyr Asp Asn Glu Ser Glu Glu Asn
 85 90 95
 Arg Arg Ala Arg Arg Ile Pro
 100

<210> 11221

<211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 11221
 Gln Pro Gln Leu Asn Thr Ala Phe Ser Asn Lys Met Thr Val Ile Tyr
 1 5 10 15
 Gln Val Ala Cys Gln Leu Phe Lys Leu Leu Lys Ile Met Asp Leu Tyr
 20 25 30
 Phe Asp Ala Pro Lys Trp Val Val Ile Leu Thr Ile Leu Lys Ile Val
 35 40 45
 Asn Met Thr Leu Cys Ile Val Lys Met Thr Val Arg Gln Arg
 50 55 60

<210> 11222
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 11222
 Arg Gln Pro Gly Asn Val Ser Val Thr Tyr Pro Gly Lys Arg Gly Arg
 1 5 10 15
 Cys Gly Ile Glu Ser Ala Ser His Arg Arg Lys Gly Asp Ala Gly Asn
 20 25 30
 Lys His Val Tyr Gln Ile Lys Glu Lys Ala Glu Gln Lys Asp Asp Gly
 35 40 45
 Asp Phe Ala Ala Ile Arg His Gly Ser Ser Ser Gly Glu Val Ala Tyr
 50 55 60
 Arg Ile Gly Pro His Val Thr Asp Lys Arg Asp Lys Ala Arg Tyr Thr
 65 70 75 80
 Val Asn Ile Ile Leu Thr Val Asn Gln Ala Ser Asp Ala
 85 90

<210> 11223
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 11223
 Ala Gly Arg Arg Thr Asp Gln Lys Thr Gly Thr Gly Leu Met Thr Thr
 1 5 10 15
 Ala Val Leu Gln Met Arg Gln Gly Val Leu Leu Thr Thr Ser Cys Leu
 20 25 30
 Leu Ala Phe Val Leu Leu Phe Leu Val Ile Ala Leu Gly Val Ser Ile
 35 40 45
 Gly Glu Leu Ser Ile Pro Leu Asn Asn Val Phe Tyr Ala Ile Ser Asn
 50 55 60
 Lys Leu Gly Leu Thr Asp Val Pro Leu Asn Arg Ile Tyr Glu Ser Val
 65 70 75 80
 Ile Trp Asp Phe Arg Leu Ser Arg Ala Leu Val Ala Ala Cys Cys Gly
 85 90 95
 Ala Gly Leu Ala Ile Cys Gly Ala Val Leu Gln Ser Leu Leu Lys Asn
 100 105 110
 Ala Leu Ala Glu Pro Tyr Val Leu Gly Val Ser Ala Gly Ala Ser Thr
 115 120 125
 Gly Ala Val Ser Val Val Val Leu Gly Leu Gly Thr Gly Arg Ser Val
 130 135 140
 Ala Phe Cys Gly Arg Val Cys Arg Ser Leu Arg Arg Leu Cys Leu Cys
 145 150 155 160
 Arg Leu Pro Asp Gln Arg Arg Ala Arg Arg Gln
 165 170

<210> 11224
 <211> 121
 <212> PRT
 <213> Enterobacter cloacae

<400> 11224
 Thr Leu Val Asn Asp Pro Val Arg Phe Arg Gln Leu Phe Gln Arg Val
 1 5 10 15
 Asn Arg Met Val Cys Gln Pro Ala Trp Arg Cys His Gly Gln Asp Gly
 20 25 30
 Glu Gly Gly His Gln Arg Gly Val Val Ala Arg Ile Cys Lys Arg Ala
 35 40 45
 Glu Pro Asp Ser Asp Ile Glu Ala Leu Gly Asp Lys Ile Gly Met Gln
 50 55 60
 Arg Gly Arg Asp Met Pro His Ala Lys Val Arg Val Gln Leu Ala Lys
 65 70 75 80
 Phe Ser Gln Gln Arg His His His Leu Arg Ala Ile Phe Gly Arg Gly
 85 90 95
 Gly Asp Pro Gln Phe Ser Arg Gln Pro Gly Val Val Gly Ala Asn Val
 100 105 110
 Ile Leu Gln Ser Leu Cys Ile Pro
 115 120

<210> 11225
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 11225
 Gln His Ala Val Thr Cys Ala Thr Ala Thr Gly Ala Thr Met Thr His
 1 5 10 15
 Phe Glu Gln Glu Ile Leu Asp Ile His Val Ala Leu Glu Asn Trp Leu
 20 25 30
 Gly Ala Gly Glu Gly Asn Arg Asp Ala Leu Leu Ala Arg Phe Arg Pro
 35 40 45
 Asp Phe Leu Met Val Pro Pro Ser Gly Asn Pro Leu Asp His His Ala
 50 55 60
 Leu Ala Gln Phe Leu Tyr Ala Gln Arg Gly Thr Arg Pro Gly Leu Arg
 65 70 75 80
 Ile Gly Ile Asp Ala Leu Thr Thr Leu Gln Thr Trp Asp Asn Gly Ala
 85 90 95
 Val Leu His Tyr Arg Glu Thr Gln Thr Arg Pro Gly Gln Pro Val Asn
 100 105 110
 Val Arg Trp Ser Thr Ala Val Leu Asn Gln Glu Gly Asp Asn Ile Thr
 115 120 125
 Trp Arg Leu Leu His Glu Thr Ala Gln Pro
 130 135

<210> 11226
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 11226
 Val Asn Val Cys Leu Val Glu Tyr Arg Glu Tyr Val Lys Gly Gly Lys
 1 5 10 15
 Arg Lys Met Leu Asp Phe Thr Cys Cys Val Met Phe Phe Asn Tyr Trp
 20 25 30
 Leu Thr Lys Ala Pro Gly Ser Ala Thr Leu Thr Arg Pro Ala Leu His
 35 40 45

Phe Pro Leu Ser Leu Trp Glu Arg Val Gly Val Arg Ala Ser Ala Arg
 50 55 60
 Thr Glu Arg Cys Thr Lys Pro Ala Ala Ser Tyr Arg Ala Gly Gly
 65 70 75 80

<210> 11227

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 11227

Ala Gln Arg Ala Phe Ser Ser Trp Val Lys Ser Ser Ile Gln Cys Ser
 1 5 10 15
 Trp Lys Ser Val Asn Val Thr Pro Val Ile Arg Glu Ile Gln His Gly
 20 25 30
 Asp Ile Val Met Ile Ser Leu Trp Ser Leu Ala Asp Thr Leu Met Cys
 35 40 45
 Gly Gln His Cys Ser Leu Leu Ile Gly Trp Leu Ala Ser Thr Asn Leu
 50 55 60
 Gln Asn Asn Glu Val Asn Pro Ile Val Thr Lys Pro Asp Val Leu Arg
 65 70 75 80
 His Arg Ile

<210> 11228

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 11228

Ile Trp Cys Ala Ala Arg Ala Ala Leu Asn Leu Phe Gly Lys Met Ser
 1 5 10 15
 Leu Leu Ile Thr Tyr Thr Phe Phe Asn Ser Ala Val Leu Ala Ser Ser
 20 25 30
 Phe Ser Tyr Leu Phe Arg Leu Ser Val Ser Val Ile Phe Ile Phe Leu
 35 40 45
 Thr Glu Phe Trp Arg Tyr Lys Ile Val Ile Gln Tyr Asn Arg His His
 50 55 60
 Pro Ala Ala His Cys Leu Asn Ala Gln Leu Ser Asn Gly Ser Asn Thr
 65 70 75 80
 Leu Phe

<210> 11229

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11229

Asn Ser Arg Leu Leu Thr Met Leu Lys Tyr Ala Glu His Pro Ser Asp
 1 5 10 15
 Val Leu Arg Leu Val Leu Glu His Gly Leu Arg Arg Asn Thr Met Glu
 20 25 30
 Gly Phe Tyr Asn Glu Ile Pro His His Pro Gly Ser Gly Pro Phe Phe
 35 40 45
 Phe Lys His Ser Phe Leu Arg Tyr Val Ser Leu Ser Gly Glu Arg Thr
 50 55 60
 Gly Tyr Pro Thr Arg Asn Gln Leu Cys Arg Lys Ala
 65 70 75

<210> 11230

<211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 11230

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Leu Pro Arg Thr Gly Glu Ser Leu Trp Ser Gly Glu Ile Thr Gly Gly
1      5      10      15
Ala Met Ser Asp Arg Ile Phe Ala Gly Ile Trp Leu Leu Leu Cys Ile
      20      25      30
Gly Gly Met Phe Val Ala Trp Gln Ile His Ser Glu Tyr Ser Tyr Glu
      35      40      45
Pro Val Gly Pro Arg Pro Phe Pro Val Gly Ile Val Gly Leu Met Leu
      50      55      60
Leu Cys Ser Val Ala Leu Leu Arg His Pro Asp Thr Val Glu Trp
65      70      75      80
Pro Pro Arg Arg Thr Leu Gln Arg Leu Leu Val Met Val Ile Val Leu
      85      90      95
Leu Met Tyr Ala Trp Gly Phe Glu Trp Leu Gly Phe Pro Ile Ala Thr
      100      105      110
Ala Leu Leu Thr Met Val Ile Gly Ile Leu Phe Asn Ala Ser Leu Pro
      115      120      125
Ala Ala Gly Ile Ser Gly Val Val Leu Gly Ile Leu Leu Trp Tyr Ala
      130      135      140
Phe Asp Arg Leu Leu Asp Val Thr Leu Pro Leu Gly Ala Trp Phe Asn
145      150      155      160

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<210> 11231
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 11231

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Lys Gln Cys Ser Ile Arg Ala Val Leu Ser Gly Met Ala Ala Ser Leu
1      5      10      15
Ile His Ile Pro Gln Cys Leu Leu Leu Thr His Ser Gly Arg Ile Phe
      20      25      30
His Thr Phe Leu Tyr Asn Leu Val Ser Lys Thr Ile Ser Ala Ala Leu
      35      40      45
Leu Leu Ser Lys Gln Phe Leu Asn Thr Leu Arg Asn Leu Asn Lys Tyr
      50      55      60
Phe Arg Pro Arg
65

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<210> 11232
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 11232

```

Gly Ser Ala Met Lys Tyr Pro Ile Val Leu Val Leu Cys Ala Leu Thr
1      5      10      15
Val Pro Ala Ile Ala Ala Ser Thr Asp Trp Pro Ser Ala Leu His Gly
      20      25      30
Ile Ala Ser Gly Asp Thr His Trp Ile Glu Gln Ala Pro Thr Leu Ala
      35      40      45
Ala Thr Ala Asp Ala Arg Gln Ala Gln Leu Leu Glu Asp Ala Leu Ala
      50      55      60
Ala Ala Leu Thr Thr Asn Thr Ser Ala Thr Leu Lys Ala Leu Gln Thr
65      70      75      80

```

Ile Asp Ala Gly Lys Trp Pro His Met Val Gly Ser Asp Ile Val Cys
 85 90 95
 Thr Pro Pro Leu Glu Lys Ser Pro Ala Glu Val Asp Ala Phe Tyr Gln
 100 105 110
 Arg Thr Arg Arg Ala Leu Leu Asp Thr Val Glu Gly Ala Gln Cys Leu
 115 120 125
 Trp Ile Leu Glu Ala Thr Met Glu Glu Leu Asn Ala Glu Lys Ala Arg
 130 135 140
 Gln Gly Lys
 145

<210> 11233

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 11233

Arg Gly Arg His Lys Val Cys Gly Val Val Arg Lys Arg Tyr Gly Val
 1 5 10 15
 Leu Leu Arg Asp Trp Pro Asp Gly Asp Gly Asp Gly Glu Leu Gln Leu
 20 25 30
 Val Ser Met Val Arg Ser Asp Pro Leu Thr Leu Thr Leu Ser Pro Lys
 35 40 45
 Gly Arg Gly Asp Asp Tyr Ala Leu Ala Pro Leu Gly Arg Gly Pro Gly
 50 55 60

65

<210> 11234

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11234

His Phe Met Leu Val Val Ala Ser Leu Thr Pro Gly Gln Arg Met Arg
 1 5 10 15
 Pro Ala Asp Lys Arg His Asp Pro Met Ile Pro Pro Ser Ala Leu Val
 20 25 30
 Ile Thr Thr Val Asp Asp Arg Gly Arg Pro Phe Gly Leu Ala Ser Gly
 35 40 45
 Gln Leu Glu Thr Ala Arg Gly Leu Ala Gly Ser Val Ile Ser Ser Pro
 50 55 60
 Pro Ser Pro Gly Cys
 65 70

<210> 11235

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 11235

Met Ala Thr Thr Pro Gly Phe Ser Tyr Val His Ala Glu Glu Ser Ala
 1 5 10 15
 Val His His Leu Leu His Leu Gln Leu Pro Asp Ser Ala Asp Leu Phe
 20 25 30
 Glu Leu Ala Gly Thr Cys Ala Ala Tyr Val Ser Val Leu Val Glu Met
 35 40 45
 Asp Asp Ala Val Thr Phe Ser Thr Leu Cys Lys Gln Leu Leu Gly Cys
 50 55 60

65

<210> 11236
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 11236
 Ser Cys Ser Met Lys Lys Leu Pro Gly Ala Thr Trp Thr Val Thr Ser
 1 5 10 15
 Cys Ile Gln Ile Ala Gly Met Thr Val Arg Arg His Lys Glu Asn Val
 20 25 30
 Met Gly Trp Lys Tyr Glu Gln Ser Thr Gly Lys Met Tyr Lys Asp Gly
 35 40 45
 Lys Leu Ile Glu Thr Gly Tyr Ser Gly Ala Leu Thr Asn Lys Asn Asn
 50 55 60
 Pro Asp Arg Gln His Val Lys Gly Leu Gly Pro Leu Pro Arg Gly Thr
 65 70 75 80
 Tyr Lys Ile Ala Gly His Ser Asn Ser Lys Gly Pro Ile Thr Ile Ile
 85 90 95
 Leu Glu Gln Thr Ser Gly Glu Ser Phe Gly Arg Ser Glu Phe Arg Ile
 100 105 110
 His Gly Asp His Lys Tyr Gly Pro Ala Gly Phe Ala Ser Glu Gly Cys
 115 120 125
 Ile Ile Leu Ser Leu Ser Thr Arg Arg Lys Ile Leu Arg Asp Gly Gly
 130 135 140
 Glu Leu Glu Val Val Arg
 145 150

<210> 11237
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 11237
 Pro Leu Met Gln Ile Ala Leu His Ala Asn Ile Ile Arg Asp Glu Ile
 1 5 10 15
 Gln Cys Ser Asp Leu Ser Phe Met Arg Gln Ser Gly Arg Arg Ser Ser
 20 25 30
 His Cys Leu Arg Met Phe Ile Lys Lys Thr Gln Lys Thr Pro Ser Ala
 35 40 45
 Glu Leu Arg Leu Ala Leu Lys Arg Gln Gln Glu Met Leu Asp Glu Gln
 50 55 60
 Lys Asp Tyr
 65

<210> 11238
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 11238
 Thr Phe Leu Leu Asn Val Leu Gly Cys Tyr Arg His Lys Ile Thr Gly
 1 5 10 15
 Lys Ser Pro Leu Met Ile Leu Gln Ile Ile Thr Ile Cys Ile Ser Val
 20 25 30
 Val Asn Lys Phe Arg Trp Gly Thr Ser Gly Asn Glu Glu Gly Met Glu
 35 40 45
 Trp Val Ala Val Gly Asp Arg Arg Ala Ala Arg Arg Gly Gly Asn Val
 50 55 60
 Arg Ala Asp Val Pro Ala Gly Arg Tyr Ser Gly Lys Val
 65 70 75

<210> 11239
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 11239
 Asn Gly Met Arg Arg Glu Leu Leu Phe Phe Thr His His Leu Lys Ile
 1 5 10 15
 Val Ile His Arg Ile Ala Gly Tyr Ala Gln Gly Leu Arg Arg Val Leu
 20 25 30
 Asp Ala Thr Pro His Phe Glu Asn Ala Phe Ser Val His Phe Ser Asp
 35 40 45
 Tyr Phe Lys Pro Leu Arg Phe Leu Tyr Leu Phe Ala Arg Asn Arg Met
 50 55 60
 Phe Ile Asp Asp Phe Leu Asp Arg Leu Leu Asn Asp Ala Ala Gln Val
 65 70 75 80
 His Ile Leu Arg Val
 85

<210> 11240
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 11240
 Tyr Leu Arg Ile Lys Met Lys Phe Leu Thr Leu Ile Val Ala Ile Thr
 1 5 10 15
 Leu Leu Thr Ala Cys Gln Leu Val Arg Pro Phe Gly Glu Ala Thr Thr
 20 25 30
 Tyr Lys Pro Phe Thr Val Ser Ala His Pro Gly Leu Glu Gly Arg Tyr
 35 40 45
 His Cys Met Arg Ser Ala Leu Asp Ala Glu Gly Tyr Glu Val Glu His
 50 55 60
 Ile Phe Pro Glu Arg Asp Thr Pro Asn Phe Phe Asp Ile Ser Arg Gly
 65 70 75 80
 Ser Arg Leu Ile Ala Gln Val Asp Met Ser His Thr Thr Gly Ala Asn
 85 90 95
 Phe Leu Asp Ile Thr Leu Ile Ser Gly Ser Lys Gln Thr Asn Glu Asp
 100 105 110
 Leu Ala Arg Val Ile Ala His Cys Val Ser Arg
 115 120

<210> 11241
 <211> 308
 <212> PRT
 <213> Enterobacter cloacae

<400> 11241
 Thr Gly Thr Ser Ser Cys Leu Tyr Trp Tyr Trp His Tyr His Ala Gly
 1 5 10 15
 Asp Val Met Ala Leu Met Ser Glu Pro Val Thr Ser Leu Gln Asp Asp
 20 25 30
 Thr Arg Lys Gln Leu Gly Ala Phe Leu Arg Ala Arg Arg Glu Ser Leu
 35 40 45
 Asp Pro Gln Arg Leu Gly Leu Pro Arg Ser Gly Arg Arg Arg Thr Pro
 50 55 60
 Gly Leu Arg Arg Glu Glu Val Ala Met Leu Ala Asp Val Gly Val Thr
 65 70 75 80
 Trp Tyr Thr Trp Leu Glu Gln Gly Arg Glu Val Asn Pro Ser Ser Ala
 85 90 95

Val Met Ala Ala Ile Ala Lys Ala Leu Gln Cys Thr Pro Thr Glu Ala
 100 105 110
 Arg His Leu Phe Val Leu Ala Gly Leu Pro Pro Gly Glu Ala Pro Gln
 115 120 125
 Ala Val Cys Cys Glu Gly Ile Ser Glu Gly Thr Arg Arg Leu Leu Asp
 130 135 140
 Thr Leu Met Pro Lys Pro Ala Ser Ile Gln Lys Pro Asn Phe Asp Ile
 145 150 155 160
 Val Ala Trp Asn Asp Ser Phe Gly His Leu Met Gly Val Asp Phe Asn
 165 170 175
 Ala Ile Pro Pro Glu Asp Arg Asn Cys Ile Tyr Leu Phe Leu Thr His
 180 185 190
 Pro Ala Trp Arg Ala Arg Leu Gly Lys Arg Asp Asp Val Leu Pro Ile
 195 200 205
 Phe Val Ser Tyr Phe Arg Ala Ala Met Ala Glu His Arg Gly Asp Pro
 210 215 220
 Leu Trp Glu Ala Lys Leu Ala Arg Phe Phe Ala Val Ser Glu Glu Phe
 225 230 235 240
 Lys Thr Leu Trp His Gln Arg Asn Asp Val Arg Gly Val Glu Asn Gln
 245 250 255
 Leu Lys Leu Phe Thr His Pro Glu Leu Gly Asp Phe His Leu Gln Gln
 260 265 270
 Met Tyr Trp Tyr Ser Ala Pro Arg Asn Gly Ser Arg Leu Leu Val Tyr
 275 280 285
 Leu Pro Val Asp Glu Ala Gly Glu Arg Ala Met Ala Trp Leu Ala Glu
 290 295 300
 Gln Gly Ile
 305

<210> 11242

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 11242

Arg Arg Asn His Pro Ile Tyr Asn Glu Cys Leu Leu Thr His Asn Ala
 1 5 10 15
 Lys Ala Val Val Pro Gly His Asn Gly Arg Phe Val Leu Ala Lys His
 20 25 30
 Thr Trp Asn Asp Pro Leu Ile Gln Leu Ala Lys Ala Ser Lys Asp Lys
 35 40 45
 Asn Tyr Arg Leu Leu Thr Pro Glu Leu Gly Glu Pro Val Arg Val Ser
 50 55 60
 Asp Thr Thr Gln Gln Phe Arg Glu Trp Trp Glu
 65 70 75

<210> 11243

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 11243

Lys Gln Ala Leu Thr Pro Val Ser Ser Gln Pro Asp Phe Leu His Glu
 1 5 10 15
 Thr Pro Ile Ala Lys Val Ala Leu Thr His Ile Phe His Ser Thr Ile
 20 25 30
 Asp Cys Tyr Asn Ser Ile Phe Leu Thr Leu Trp Gln Phe Tyr Tyr Ser
 35 40 45
 Ser Thr Met Leu Ile Ser Pro His Ser His Ser Trp Gly Phe Leu
 50 55 60

<210> 11244
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 11244
 Ser Val Ala Arg Val Leu Pro Arg Gln Asn Ser Ala Asp Asn Glu Val
 1 5 10 15
 Pro Tyr Gln Lys Arg Leu Lys Pro Ala Trp Ile Leu Tyr Trp Asn Ser
 20 25 30
 Leu Leu Asn Arg Val Asn Ile Tyr Leu Thr Phe Ile Asn Lys Val Glu
 35 40 45
 Glu Asp Gly His Asp Asp Ala Phe Ile Cys Met Arg Leu
 50 55 60

<210> 11245
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 11245
 Leu Thr Ala Asn Ala Phe Ala Val Thr Phe Lys Asn Met His Ile Val
 1 5 10 15
 Ile His Ala Val Glu Pro Ser Arg Ala Gln Val Gly Ala Val Thr Thr
 20 25 30
 Met Gln Thr Ala Val Gly Met Glu Lys Asn Ile Pro Phe Gly Ser Leu
 35 40 45
 Ser Phe Arg Ile Cys Ala Pro Gly Thr Thr His Leu Ala Ala Phe Lys
 50 55 60
 Lys Asp Asp Ala Ala Asp Thr Arg Pro Val Met
 65 70 75

<210> 11246
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 11246
 Thr Pro Ile Ser Leu Pro Ser Thr Leu Pro Leu Lys Gly Lys Ser Ser
 1 5 10 15
 Cys Thr Cys Ser Ala Ser His Thr Pro Ile Gln Leu Ile Thr Ile Leu
 20 25 30
 Gln Ala Phe Val Ser Tyr Met Lys Leu Cys Phe Leu Phe Asn Thr Val
 35 40 45
 Asn Ile Lys Ala Met Asn Val Ser Ser Ser Asp Asn Val Thr Asn Leu
 50 55 60
 Leu Ile Asp Gln Gln Leu Ile Asn
 65 70

<210> 11247
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 11247
 Ala Glu Asn Asp Gly Ser Leu Ser Gly Ile Thr Ser Thr Ala Ala Ser
 1 5 10 15
 Ala Glu Thr Asp His Lys Pro Lys Leu Lys Val His Cys Leu Thr Arg
 20 25 30
 Leu Glu Val Ala Thr Arg Cys Val His Arg Ala Leu Ile Leu Tyr Glu
 35 40 45

Pro Arg Ala Ala Phe Tyr Thr Glu Lys Val Ala Lys Lys Gln Asn Lys
 50 55 60
 Asn Ala Gln Val Ala Ser Val Val Arg Lys Asn Phe Gln Gln Arg Phe
 65 70 75 80
 Gln Arg Asn Glu Arg
 85

<210> 11248

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 11248

Lys Ser Cys Leu Leu Val Arg Met Phe Gly Lys Arg Ala Leu Ser Lys
 1 5 10 15
 Val Lys Ala Ser Met Gln Ala Trp Glu Arg Ser Gly Leu Gln Gln Ile
 20 25 30
 Asp Ala Val Leu Gln Ser Ala Ser Leu Ile Lys Arg Ile Asp Asp His
 35 40 45
 Ala Ser Leu Ser Ile Phe Ser Pro Gly Ala Gly Leu Val Arg Gln Ile
 50 55 60
 Arg Ala
 65

<210> 11249

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 11249

Ala Val His Ser Val Lys Lys Val Arg Ile Cys Gly Pro Phe Phe Met
 1 5 10 15
 Leu Phe Gln Tyr Pro Ala Ile Pro Asp Phe Val Ile Cys Leu Ala Lys
 20 25 30
 Pro Val Leu Phe Val Tyr Pro Leu Leu Thr Cys Leu Ser Pro Trp Gly
 35 40 45
 Met Asp Phe Val Phe Trp Phe Asn Lys Arg Lys Asn Lys Trp Asn Asn
 50 55 60
 Leu Met Leu
 65

<210> 11250

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 11250

Gly Asp Arg Gly Met Ser Asp Thr Leu Asn Tyr Asn Pro Ala Leu Pro
 1 5 10 15
 Glu Ser Arg Gln Phe Thr Pro Pro Ala Glu Gly Gly Asn Gly Ala Ile
 20 25 30
 His Lys Pro Gly Asp Tyr Thr Asn Leu Ile Trp Gln Thr Arg Ser Arg
 35 40 45
 Glu Pro Glu Ser Trp Glu Val Lys Leu Ile Ala Thr Leu Glu Asp Leu
 50 55 60
 Phe Glu Gln Gly Val Glu Thr Leu Pro Glu Leu Val Ser Gly Leu Asn
 65 70 75 80
 Ala Val Arg Met His Asp Gln Gln Gly Glu Pro Trp Ser Asp Ala Ser
 85 90 95
 Phe Arg Ala Phe Leu Gln Val Asn Gly Tyr
 100 105

<210> 11251
 <211> 314
 <212> PRT
 <213> Enterobacter cloacae

<400> 11251
 Ile Gln Glu Cys Glu Met Thr Asn Thr Gly Phe Ile Ile Gly Ala Tyr
 1 5 10 15
 Pro Cys Ala Pro Ser Phe His Gln Lys Gly Glu Gln Glu Tyr Thr
 20 25 30
 Phe Trp Arg Glu Leu Ser Asp Thr Pro Asn Ile Arg Gly Leu Glu Gln
 35 40 45
 Pro Cys Leu Glu Asn Leu His Pro Phe Gly Asp Glu Trp Leu Phe Arg
 50 55 60
 His Thr Pro Gly Asn Trp Gln Ile Val Val Thr Ala Val Met Glu Thr
 65 70 75 80
 Met Arg Arg Arg Gly Ser Asn Gly Ala Phe Gly Leu Ala Ser Ala Asp
 85 90 95
 Glu Glu Gln Arg Lys Ala Cys Ile Glu Tyr Tyr Arg His Leu His Gln
 100 105 110
 Lys Ile Asp Ala Val Asn Thr Arg Phe Pro Gly Lys Val Val Ala Leu
 115 120 125
 Glu Met Gln Ala Ala Pro Gln Ala Gly Asn Glu Ser Val Glu Gln Ala
 130 135 140
 Thr Glu Ala Phe Ser Arg Ser Val Arg Glu Ile Ala Ser Trp Asp Trp
 145 150 155 160
 Gly Cys Asp Leu Val Leu Glu His Cys Asp Ala Met Asn Gly Pro Ala
 165 170 175
 Pro Arg Lys Gly Phe Leu Pro Leu Glu Gln Val Leu Glu Val Val Lys
 180 185 190
 Glu Thr Asp Ile Ser Val Cys Ile Asn Trp Ala Arg Ser Ala Ile Glu
 195 200 205
 Gly Arg Asn Thr Ala Leu Pro Leu Glu His Val Gln Ala Ala Leu Ala
 210 215 220
 Ala Gly Lys Leu Gly Ala Leu Met Phe Ser Gly Thr Thr Pro His Gly
 225 230 235 240
 Glu Tyr Gly Glu Trp Gln Asp Leu His Ala Pro Phe Ser Ser Phe Cys
 245 250 255
 Ala Asp Ser Leu Met Ser Ile Glu His Val Lys Ala Leu Phe Thr Ala
 260 265 270
 Ala Ser Ala Ala Thr Leu Lys Phe Ser Gly Ile Lys Leu Leu Glu Ile
 275 280 285
 Asn Ala Asn Ala Asp Val Ser His Arg Ile Ala Ile Leu Arg Asp Gly
 290 295 300
 Ile Ser Ala Met Asn Lys Ala Ser Gln
 305 310

<210> 11252
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 11252
 Gln Pro Leu Thr Arg Ala Val Ile Lys Met Met Met Lys Arg Gly Val
 1 5 10 15
 Ser Leu Phe Leu Leu Leu Leu Thr Gly Cys Ser Ala Ser Glu Glu
 20 25 30
 Ile Pro Val Gln Lys Ala Gln Gln Gly Lys Met Ser Pro Glu Arg Ser
 35 40 45
 Leu Asn Met Glu Gln Leu Cys Arg Asp Gln Ala Ala His Arg Tyr Asn

Arg 1	Ser	Val	Ser 5	Pro	Ser	Ala	Val	Ser 10	Gly	Gly	Ile	Ile	His 15	Gln	Leu
Asp	Gln	Asn	Asp 20	Ala	Glu	Ala	Ala	Asp 25	Lys	Arg	Gln	Asp 30	Arg	Glu	Gln
Phe	Ala	Glu	Ile	Met	Gly	Glu	Ile	Val	Pro	Ala	Glu	Ser	Arg	Pro	Gly

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<210> 11259
<211> 67
<212> PRT
<213> Enterobacter cloacae
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<210> 11260
<211> 69
<212> PRT
<213> Enterobacter cloacae
```

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<210> 11261
<211> 70
<212> PRT
<213> Enterobacter cloacae
```

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<400> 11261
Ile Arg Leu Val Leu Ile Met Ala Ser Ile Ser Thr Ile Cys Pro Thr
1          5          10          15
Val Pro Glu Lys Tyr Asp Ser Tyr Phe Phe Ile Gly Glu Phe Arg Gly
          20          25          30
Leu Gly Glu Gly Met Ser Gly Gly Ala Ala Leu Thr Thr Thr Tyr Gly
          35          40          45
Thr Val Gly Pro Cys Lys Arg Ser Ala Ala Gly Gln Phe Lys Gln Thr
          50          55          60
Thr Pro Ser Ala Ala

```

65

70

<210> 11262

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11262

```

Leu Val Arg Lys Ile Gly Ala Ile Leu Thr Val Gln Ala Asn Val Cys
1           5           10           15
Glu Pro Ile Leu Gly Val Gly Ile Phe Phe Ser Val Arg Pro Val Gln
          20           25           30
Gly Asn Lys Leu Asp Ser Val His Glu Asn Glu Thr Gly Phe Gly Asp
          35           40           45
Leu Leu Ala Thr Ala Ile Pro Phe Ala His His Gln Thr Glu Thr Gly
          50           55           60
Phe Cys Asn Cys Phe Cys Arg Lys
65           70

```

<210> 11263

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 11263

```

Gly Lys Asp Arg Asn Ala Gly Met Lys Met Ala Leu Ala Gln Arg Val
1           5           10           15
Leu Leu Pro Val Val Arg His His Thr Gly Asn Phe Ala Gly Ala Thr
          20           25           30
Thr Asp Thr Leu Leu Ser Val Gly His Asn Lys Thr Ile His Asn Asn
          35           40           45
Thr Cys Phe Trp Phe Asn Asn Leu Ile Leu Ser Ile Val Ile Val Phe
          50           55           60
Thr His Ser Ser Met Ala Thr Gln Cys Ser Asn Ala Gln Glu Gly Glu
65           70           75           80
Leu Phe Pro Val Asn Leu Trp Gln Ile Asn Leu Ile Gln Glu Ala Asp
          85           90           95
Glu

```

<210> 11264

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 11264

```

Arg Leu Thr Gly Ser Ser Gly Phe Asp Ser Thr Pro Arg Thr Phe Asp
1           5           10           15
Gln Pro Arg Leu Lys Lys Leu Leu Gln Leu Ala Tyr Leu Gln Ala Asp
          20           25           30
Gly Gly Leu Gly Asn Thr His Tyr Ile Cys Cys Arg Arg Lys Ala Ala
          35           40           45
Ala Leu Asn Asp Gln Thr Lys Ser Gly Glu Val Ser Gln Ile Glu Arg
          50           55           60
Arg His Ala Lys Phe Leu Leu
65           70

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<210> 11265

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 11265

Gly Glu Thr Gln Met Ile Arg Arg Tyr Phe Leu Leu Pro Val Phe Ala
 1 5 10 15
 Leu Thr Ser Phe Ala Gly Ala Leu Ala Pro Leu Asp Gly Leu Ser
 20 25 30
 Ala Ala Asp Val Asn Gly Pro Ala Ala Val Ala Pro Gln Glu Lys Pro
 35 40 45
 Gln Pro Pro Ala Lys Leu Ile Val Asp Pro Pro Leu Ala Gly Pro Leu
 50 55 60
 Ser Lys Gly Ala Val Phe Ile Gln Tyr Arg Val Glu Asn Leu Arg Ile
 65 70 75 80
 Glu Pro Val Phe Gly Pro Asp Ala Leu Lys Val Thr Pro Arg Ile Gly
 85 90 95
 His Ile His Val Val Asp Asp Ala Pro Trp His Trp Ala Asp Thr
 100 105 110
 Ser Gly Glu Pro Val Ile Leu Val Gly Leu Pro Ala Gly Lys His Lys
 115 120 125
 Val Thr Ile Ile Val Ala Asp Pro Thr His Lys Pro Ile Asp His Lys
 130 135 140
 Thr Val Glu Phe Thr Val Pro Pro His Ala Ala Val His His Phe
 145 150 155 160

<210> 11266

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 11266

Val Tyr Trp Gln Phe Lys Gln Gly Gly Gln Leu Cys Leu Lys Asp Glu
 1 5 10 15
 Arg Leu Phe Ser Leu Gln Leu Phe Val Glu Leu Trp Arg Ile Val Asn
 20 25 30
 Pro Glu Lys Phe Arg Met Cys Tyr Ile Pro Leu Lys Asp Ile Ser Ser
 35 40 45
 Lys Ile Leu Asn Ile Lys Ser Thr Lys Glu Gln Lys Asp Ser Leu Trp
 50 55 60
 Leu
 65

<210> 11267

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 11267

Pro Ser Ser Leu Leu Thr Arg Arg Ile Ser Pro Ser Thr Ile Lys Pro
 1 5 10 15
 Leu Ser Ser Pro Cys Arg His Thr Pro Arg Phe Ile Thr Phe Lys Glu
 20 25 30
 Pro Val Met Lys Ala Leu Ser Val Leu Thr Ala Ala Leu Leu Ala Val
 35 40 45
 Ser Thr Ser Ala Leu Ala Glu Thr Lys Ala Ser Val Val Leu Val His
 50 55 60
 Gly Ala Phe Ala Asp Gly Ser Ser Trp Asn Lys Val Ile Thr Arg Leu
 65 70 75 80
 Gln Lys His His Asn Glu Val Ile Ala Val Gln Leu Pro Leu Thr Ser
 85 90 95
 Leu Lys Asp Asp Val Ala Ala Thr Gln Arg Ala Ile Ala Arg Ala His
 100 105 110
 Gly Asp Val Val Leu Val Gly His Ser Trp Gly Gly Ser Val Ile Ser

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<210> 11268
<211> 411
<212> PRT
<213> Enterobacter cloacae
```

Ser 1	His	Cys	Pro	Arg 5	Pro	Arg	Gln	Arg	His 10	Pro	Tyr	His	Arg	Cys 15	Ile
Arg	Leu	Leu	Lys 20	Gly	Glu	Met	Met	Lys 25	Thr	Ile	His	Leu	Thr	Gln	Gly
Gln	Ala	Arg 35	Thr	Arg	Leu	Ile	Ala 40	Pro	Asp	Asp	Met	Val	Ser	Cys	Asn
Leu	Ala 50	Phe	Ile	Asp	Cys	Lys 55	Leu	Pro	Gly	Ser	His 60	Leu	Lys	Gln	Asn
Tyr 65	Ser	Phe	Ile	Gly	Pro 70	Gly	Val	Thr	Gln	Ser 75	Ser	Glu	Gln	Val	Val 80
Asn	Ile	Pro	Glu	Pro 85	His	Gly	Phe	Asn	Ile 90	Gly	Ala	Ala	Ala	Met 95	Pro
Lys	Gly	Val	Thr 100	Asn	Asn	Leu	His	Leu 105	His	Phe	Thr	Ala	Glu	Val	Phe
Leu	Ile	His 115	Glu	Gly	Thr	Trp	Arg 120	Phe	Arg	Trp	Gly	Ala	Asn	Gly	Glu
His	Glu 130	Ala	Glu	Phe	Ser	Ala 135	Pro	Thr	Ile	Leu	Ser 140	Ile	Pro	Thr	Trp
Ile 145	Phe	Arg	Gly	Phe 150	Thr	Asn	Val	Ser	Lys	Glu 155	Asp	Thr	Cys	Gly	Met 160
Val	Phe	Thr	Val	Leu 165	Gly	Gly	Asp	Asn	Thr 170	Gly	Gly	Ile	Ile	Trp	His 175
Pro	Ser	Val	Leu 180	Ala	Thr	Ala	Ser	Glu 185	Tyr	Gly	Met	Tyr	Leu	Ser	Lys
Asp	Asn	Met 195	Leu	Ile	Ala	Gln	Glu 200	Pro	Gly	Glu	Pro	Thr 205	Pro	Asp	Pro
Ala	Ala 210	Leu	Leu	Thr	Pro	Leu 215	Ser	Glu	Gln	Tyr	Ile	Ala	Ser	Leu	Arg
Asp 225	Tyr	Ser	Val	Glu	Glu 230	Met	Arg	Gln	Arg	Ala 235	Val	Thr	Gly	Asp	Asp 240
Arg	Arg	Trp	Ser	Ala 245	Gln	Gly	Leu	Leu	Asp 250	Ser	Val	Leu	Pro	Gly	His 255
Gly	Gly	Glu	Ile	Ala	Pro	Val	Ile	Gly	Phe	Gly	Ile	Ser	Gln	Asp	Arg

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<210> 11269
<211> 201
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 11270
<211> 478
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 11270
Tyr Gly Arg Ala Cys Glu Thr Ala Ala Gly Asp Arg Thr Met Leu Lys
1           5           10           15
```

Thr	Leu	Ala	Arg	Trp	Leu	Ala	Ala	Ala	Val	Leu	Ile	Leu	Ile	Ile	Ala
			20					25					30		
Phe	Ala	Leu	Phe	Ser	Cys	Glu	Ser	Ala	Gly	Trp	Arg	Trp	Leu	Thr	Lys
		35					40					45			
Gly	Gly	Trp	His	Thr	Thr	Ala	Arg	Ile	Ser	Ser	Leu	Thr	Pro	Gln	Glu
	50					55					60				
Arg	Glu	Trp	Ala	Gly	Ile	Ala	Trp	Arg	Tyr	Phe	Glu	Asn	Asn	Thr	Gln
65					70					75					80
Pro	Gln	Thr	Gly	Leu	Val	Asn	Gly	Ser	Asp	Lys	Gln	Pro	Arg	Val	Thr
				85					90					95	
Leu	Trp	Gln	Met	Gly	Asp	Thr	Leu	Ile	Ala	Leu	Leu	Ala	Ala	Arg	Glu
			100					105					110		
Leu	Gly	Leu	Ile	Gln	Ala	Ala	Glu	Phe	Asp	Ala	Arg	Leu	Thr	Arg	Leu
		115					120					125			
Leu	Gly	Thr	Leu	Asn	Arg	Leu	Thr	Leu	Thr	Glu	Thr	Arg	Thr	Pro	Gly
	130					135					140				
Arg	Leu	Tyr	Ser	Ser	Arg	Thr	Ala	Thr	Pro	Ile	Asp	Phe	Thr	Gly	Lys
145					150					155					160
Pro	Ala	Gln	Arg	Gly	Trp	Ser	Ala	Lys	Asp	Met	Ala	Arg	Leu	Met	Leu
				165					170					175	
Ala	Leu	Arg	Leu	Thr	Ala	Glu	Arg	Ala	Pro	Glu	Tyr	Arg	Glu	Tyr	Leu
			180					185					190		
Glu	Lys	Ile	Ile	Leu	Arg	Trp	Asn	Phe	Cys	Pro	Val	Met	Asp	Lys	Asp
		195					200					205			
Gly	Glu	Leu	Trp	Ser	Ala	Ser	Glu	Gln	Asn	Glu	Gln	Leu	Leu	Val	Arg
	210					215					220				
Asp	Glu	Leu	Arg	Leu	Gly	Glu	Ser	Glu	Tyr	Ala	Ala	Ser	Ala	Phe	Arg
225					230					235					240
Leu	Trp	Gly	Phe	Pro	Ala	Gly	Lys	Ala	Phe	Ser	Pro	Pro	Ser	Gln	Asn
				245					250					255	
Val	Ile	Met	Tyr	Gln	Arg	Ser	Leu	Ala	Val	Asp	Ala	Arg	Asp	Pro	Arg
			260					265					270		
Thr	Thr	Trp	Gln	Pro	Ser	Leu	Leu	Ser	Thr	Leu	Pro	Ala	Met	Leu	Pro
		275					280					285			
Gly	Leu	Glu	Phe	Gly	Trp	Gln	Pro	Pro	Gly	Val	Ala	Ser	Asp	Ile	His
	290					295					300				
Lys	Thr	Leu	Arg	Ala	Arg	Ala	Glu	Ala	Val	Trp	Leu	Ser	Gln	Lys	Thr
305					310					315					320
Arg	Trp	Glu	Arg	Glu	Arg	Ala	Leu	Thr	Ala	Arg	Ala	Asp	Phe	Tyr	Leu
				325					330					335	
Ser	Gln	Ala	Pro	Trp	His	Val	Glu	Asp	Thr	Val	Trp	Gly	Asn	Gly	Tyr
			340					345					350		
Ala	Trp	Asn	Thr	Leu	Gly	Asp	Asp	Gly	Lys	Ser	Tyr	Pro	Arg	Leu	Ala
		355					360					365			
Gln	Val	Thr	Thr	Lys	Ala	Val	Phe	Met	Leu	Trp	Thr	Leu	Trp	Glu	Asn
	370					375					380				
Glu	Tyr	Thr	Asp	Ala	Leu	Met	Ala	Ile	Thr	Arg	His	Leu	Asn	Asn	Pro
385					390					395					400
Gln	Gln	Gly	Trp	Phe	Glu	Gly	Arg	Val	Glu	Ala	Thr	Gly	Asp	Ile	Asn
				405					410					415	
Pro	Thr	Leu	Thr	Leu	Ser	Thr	Asn	Ala	Met	Val	Leu	Glu	Ala	Leu	Leu
			420					425					430		
Tyr	Lys	His	Asn	Ala	Gly	Pro	Leu	Phe	Glu	Asn	Gly	Leu	Val	Lys	Asn
		435					440					445			
Asp	Gly	Tyr	Phe	Ala	Arg	Arg	Thr	Ser	Asp	Pro	Phe	Asn	Pro	Pro	Gly
	450					455					460				
Leu	Cys	Leu	Pro	Gly	Glu	Arg	Ala	Leu	Arg	Ala	Ala	Pro			
465					470					475					

<210> 11271

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 11271

Gly	Gly	Ala	Met	Phe	Ser	Val	Gly	Asp	Tyr	Val	Gln	Pro	Arg	Gln	Gly
1				5					10					15	
Gly	Pro	Lys	Leu	Lys	Val	Leu	Glu	Val	Asn	Gly	Glu	Asn	Ile	Val	Ala
			20					25					30		
Val	Gln	Ala	Ser	Asp	Glu	Gln	Ser	Glu	Lys	Tyr	His	Leu	Lys	Ala	Ala
		35					40					45			
Asp	Val	Val	Leu	Tyr	Ser	Glu	Glu	Gly	Asp	Phe	Gly	Val	Cys		
	50					55					60				

<210> 11272

<211> 555

<212> PRT

<213> Enterobacter cloacae

<400> 11272

Cys	Arg	Tyr	Gln	Cys	Gly	Arg	Pro	Arg	Lys	Pro	Gly	Val	His	Cys	Pro
1				5					10					15	
Arg	Ser	Asp	Ala	Leu	Ser	Gly	Leu	Pro	Trp	Pro	Arg	His	Ser	Pro	Asn
			20					25					30		
Leu	Phe	Ser	Arg	Ser	Glu	Ala	Met	Lys	Leu	Lys	Ser	Ile	Leu	Phe	Phe
		35					40					45			
Pro	Leu	Leu	Ala	Gly	Leu	Val	Ala	Cys	Trp	Leu	Ser	Leu	Ser	Ala	Ala
	50					55					60				
Gln	Ala	Ala	Ala	Gly	Leu	Pro	Ala	Ser	Asp	Tyr	Pro	Pro	Arg	Ser	Gly
65					70					75					80
Glu	Leu	Thr	Pro	Arg	Glu	Met	Thr	Ile	Ala	Lys	Asn	Ala	Trp	Gln	Tyr
				85					90					95	
Phe	Val	Ala	Asn	Tyr	Gln	Pro	Thr	Thr	Gly	Leu	Val	Asn	Ala	Val	Asn
			100					105						110	
Lys	Tyr	Pro	Ser	Thr	Thr	Met	Trp	Asp	Ser	Ala	Ser	Tyr	Met	Ala	Ala
		115					120					125			
Met	Thr	Ala	Ala	Arg	Glu	Leu	Gly	Ile	Ile	Asp	Lys	Ala	Glu	Phe	Asp
	130					135					140				
Arg	Arg	Met	Leu	Lys	Leu	Leu	Ala	Thr	Leu	Asn	Lys	Leu	Asp	Leu	Phe
145					150					155					160
Arg	Asn	Glu	Leu	Pro	Asn	Lys	Ala	Tyr	Asn	Thr	Ile	Thr	Gly	Gln	Lys
				165					170					175	
Val	Asn	Tyr	Gln	Asn	Lys	Pro	Gly	Glu	Ile	Gly	Phe	Ser	Ala	Leu	Asp
			180					185					190		
Ile	Gly	Arg	Met	Leu	Ile	Trp	Leu	Lys	Val	Ile	Lys	Glu	Arg	Tyr	Pro
		195					200					205			
Glu	Tyr	Ser	Asn	Ser	Ile	Asp	Asn	Val	Leu	Leu	Gly	Trp	Asn	Phe	Thr
	210					215					220				
Asn	Val	Ile	Asn	Pro	Cys	Gly	Met	Met	Tyr	Gly	Ala	Tyr	Leu	Glu	Asn
225					230					235					240
Gly	Gln	Pro	Lys	Tyr	Val	Gln	Glu	Gly	Arg	Leu	Gly	Tyr	Glu	Glu	Tyr
				245					250					255	
Gly	Ala	Ala	Gly	Phe	Ala	Leu	Trp	Gly	Phe	Gly	Thr	Cys	Gln	Ala	Ser
			260					265					270		
Gln	Pro	Gln	Pro	Tyr	Glu	Leu	Ala	Glu	Ile	Tyr	Cys	Val	Met	Val	Pro
		275					280					285			
Tyr	Asp	Ser	Arg	Asp	Pro	Arg	Leu	Thr	Ser	Gln	His	Asn	Tyr	Val	Val
	290					295					300				
Thr	Glu	Ser	Tyr	Val	Leu	Tyr	Gly	Leu	Glu	Phe	Gly	Phe	Asp	Lys	Pro
305					310					315					320
Thr	Asp	Arg	Glu	Asn	Ser	Pro	Arg	Asp	Tyr	Thr	His	Pro	Trp	Met	Lys
				325					330					335	

Asn Phe Ala Asp Arg Val Tyr Gln Ala Gln Glu Asn Arg Tyr Ala Ile
 340 345 350
 Thr Gly Ile Leu Ser Ala Arg Ser Glu His Gln Leu Asp Gln Ser Pro
 355 360 365
 Tyr Phe Val Tyr Asp Thr Val Phe Ser Asp Gly Phe Asn Trp Asn Thr
 370 375 380
 Ile Thr Asp Lys Gly Val Tyr Val Pro Asn Thr Ala Ala Val Ser Leu
 385 390 395 400
 Lys Ala Ala Leu Gly Met Trp Val Leu Trp Asn Ser Pro Tyr Thr Asp
 405 410 415
 Arg Leu Leu Asp Ala Ile Glu Asn Ala Asn Glu Ala Gly Lys Gly Tyr
 420 425 430
 Tyr Glu Gly Leu Tyr Glu Asn Gly Asp Gly Pro Ile Lys Glu Phe Thr
 435 440 445
 Ala Asn Asn Asn Gly Ile Met Leu Glu Ala Leu Leu Phe Lys Lys Glu
 450 455 460
 Gly Lys Leu Met Gln Phe Asn Ser Asp Asn Pro Lys Asp Pro His Phe
 465 470 475 480
 Ala Pro Ser Leu Trp Glu Lys Lys Leu Val Asp Leu Phe Glu Pro Asn
 485 490 495
 Asn Ala Ser Arg Asn Arg Pro Phe Leu Asn Ser Thr Pro Ala Val Lys
 500 505 510
 Thr Trp Cys Glu Gln Thr Gly Thr Thr Leu Arg Thr Lys Pro Ala Cys
 515 520 525
 Gln Ala Cys Gln Cys Ala Thr Cys Asn Thr Asp Glu Pro Val Lys Leu
 530 535 540
 Pro Pro Val Thr Ala Gln Cys Leu Arg Pro
 545 550 555

<210> 11273

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 11273

Ala Thr Cys Trp Asp Val Thr Ala Ala Lys Val Leu Arg Phe Ile Thr
 1 5 10 15
 Pro Asp Ser Leu Ser Thr Ser Cys Pro Phe Ala Arg Ala Ser Asn Ala
 20 25 30
 Ser Ala Ser Gly Cys Phe Leu Tyr Leu His His Leu Cys Met Arg Met
 35 40 45
 Gln His Lys Lys Leu Lys Phe Ser Gln Gln Asp Arg Asp His Phe Thr
 50 55 60
 Asn Met Lys Pro Phe Arg Asn Phe Lys Tyr
 65 70 75

<210> 11274

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 11274

Thr His Arg Gly Arg Thr Gly Gly Pro Arg Lys Pro Ser Thr Gln Ser
 1 5 10 15
 Ser Gly Ala Ala Ala Ala Tyr Tyr His Ala Asp Thr Leu Glu Thr Leu
 20 25 30
 Gly Ile Pro Asp Ala Ser Ala Ile Gly Met Gly Arg Leu Leu Asn Ala
 35 40 45
 Leu Gln Thr Leu Leu Trp Arg Tyr Pro Gln His Ala Gly Ala Val Arg
 50 55 60
 Asn Leu Leu Asp Arg Trp Lys Met Gly Ala Leu Ile Ala Asn Asn Thr

65					70					75				80
Thr	Ser	Gln	Ala	Ala	Val	Pro	Leu	His	His	Trp	Ala	Leu	Ala	Thr
				85					90					95
Glu	Pro	Arg	Asn	Ser	Phe	Gly	Tyr	Arg	Leu	Tyr	Ala	Ser	His	Thr
			100					105					110	Leu
Arg	Leu	Ile	Asp	Ser	Ala	Ala	Gly	Leu	Ala	Val	Thr	Asn	Pro	Pro
		115					120					125		Glu
Gly	Gln	Gln	Met	Ile	Asp	Ile	Asp	Gly	Ile	Met	Val	Pro	Asp	Glu
	130					135					140			Gly
Leu	Arg	Thr	Pro	Trp	Gly	Arg	Gln	Pro	Ser	Leu	Ile	Ser	Leu	Pro
145					150					155				Tyr
Leu	Leu	Thr	Gly	Leu	Glu	Leu	Gly	Phe	Asp	Ala	Gln	Ser	Ala	Glu
			165						170					Ile
Thr	Trp	Arg	Ile	Met	Gln	Ile	Gln	Gln	Arg	Arg	His	Ser	Leu	Arg
			180					185					190	Val
Arg	Lys	Pro	Pro	Ile	Ser	Thr	Asp	Tyr	Ala	Glu	Pro	Ala	Pro	Asp
	195						200					205		Tyr
Val	Asn	Asp	Leu	Pro	Asn	Arg	Gln	Pro	Leu	Gln	Asn	Ser	Ala	Leu
	210					215					220			Leu
Asp	Ala	Thr	Pro	Glu	Gln	Thr	Ala	Met	Thr	Ser	Thr	Arg	Thr	Ala
225					230					235				Phe
Ala	Trp	Tyr	Ala	Leu	Phe	Arg	Asn	Gly	Trp	Ser	Glu	Ala	Leu	Arg
			245						250					Gln
Gln	Val	Gln	Lys	Leu	Gln	Val	Pro	Gly	Lys	Gly	Trp	Gln	Arg	Gly
			260					265					270	Leu
Asn	Leu	Asn	Ser	Ser	Val	Asn	Glu	Ile	Val	Asp	Ala	Asp	Thr	Asn
	275					280						285		Ala
Val	Val	Leu	Glu	Ser	Leu	Ala	Tyr	Ile	Ala	His	Gly	Gln	Met	Leu
	290				295						300			Cys
Leu	Ala	Cys	Pro	Gly	Pro	Ala	Thr	Pro	Gln	Thr	Ser	Ser	Ala	Gly
305					310				315					Ala
Lys	Pro													320

<210> 11275

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 11275

Trp	Leu	Phe	Cys	Pro	Pro	His	Val	Gly	Ser	Phe	Gln	Ser	Ala	Arg	Pro
1				5					10					15	
Leu	Ser	Ala	Arg	Arg	Thr	Cys	Leu	Glu	Gly	Arg	Thr	Met	Lys	Phe	Tyr
			20					25					30		
Arg	Asp	Leu	Phe	Asp	Ala	Ser	Leu	Asn	Arg	Val	Leu	Pro	Glu	Asn	Asp
		35					40					45			
Lys	Arg	His	Phe	Phe	Glu	Thr	Phe	Trp	Glu	Thr	Phe	Val	His	Met	Ser
	50					55					60				
Pro	Glu	Thr	Glu	Gln	His	Phe	Ala	Arg	Asp	Gln	Gly	Gly	Asp	Gly	Gln
65					70				75						80
Gln	Thr	Ile	Phe	Lys	Ser	Phe	Phe	Ala	Met	Leu	Ala	Val	Asp	Gly	Ala
			85						90					95	
Leu	Phe	Val	Pro	Asp	Phe	Leu	Glu	Arg	Leu	Ala	Arg	Glu	Gln	Ser	Asp
			100					105					110		
Glu	Gly	Leu	Gly	Leu	Pro	Pro	Arg	Phe	Phe	Gly	Leu	Trp	Arg	Glu	Ala
	115						120					125			
Met	Leu	Arg	Thr	Val	Arg	Ala	Cys	Asp	Pro	Leu	Cys	Asp	Glu	Glu	Ile
	130					135					140				
Leu	Thr	Ala	Trp	Ala	Met	Ala	Ile	Ala	Pro	Gly	Leu	Glu	Tyr	Leu	Arg
145				150					155						160
Arg	Gln	Ala	Glu	Leu	His	Tyr	Lys	Ala	Arg	Gly	Glu				

165

170

<210> 11276
 <211> 83
 <212> PRT
 <213> Enterobacter cloacae

<400> 11276
 Asn Lys Ala Ile Val Ser Glu Glu Thr Asn Ala Leu Pro Ala Lys Ile
 1 5 10 15
 Leu Phe Asn Lys Gln Asp Leu Pro Leu Leu Ser Leu Ala Arg Pro Met
 20 25 30
 Pro Ala Arg Ile Lys Ser Gly Asn Leu Arg Ala Lys Leu Ile Ile Tyr
 35 40 45
 Thr Gly Asn Ser Cys Leu Phe Ile Cys Leu Arg Phe Ile Ser Leu Ile
 50 55 60
 Ile Cys Ala Gly Ile Asp Leu Phe Arg Tyr Glu Asn Asp Ile Ala Ile
 65 70 75 80
 Asn Val

<210> 11277
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 11277
 Cys Ser Ser Lys Gly Arg Ser Arg Leu Arg Lys Ile Cys Ile Gln Gly
 1 5 10 15
 Trp Asn His Ser Thr Leu Cys Gly Leu Arg Gly Gly Glu Leu Ser Pro
 20 25 30
 Leu Ala Asp Val Leu Asp Gln Gly Ser Glu Leu Gly Gly His Ile Val
 35 40 45
 Ala Leu Gly Lys Ile Glu Ile Lys Thr Arg Lys Arg Trp Lys Lys Arg
 50 55 60
 Ile Gln
 65

<210> 11278
 <211> 317
 <212> PRT
 <213> Enterobacter cloacae

<400> 11278
 Trp Arg Asn Ile Thr Ser Pro Arg Ala Gly Tyr Leu Thr Lys Glu Gly
 1 5 10 15
 Leu Met Arg Asp Lys Phe Leu Leu Thr Cys Ala Leu Leu Cys Val Ala
 20 25 30
 Thr Gly Ala Glu Ser Ala Pro Lys Asp Asp Ala Asp Ser Leu Arg Asp
 35 40 45
 Lys Asn Gly Glu Pro Val Gln Ala Gly Val Phe Thr Ser Arg Trp Gly
 50 55 60
 Arg Leu Phe Ser Gly Asn Glu Asp Val Phe Ser Gly Ala Leu Ser Phe
 65 70 75 80
 Ser Ser Gly Leu Lys Glu Gln Trp Met Thr Ile Pro Asn Ser Ser Asp
 85 90 95
 Thr Ala Glu Gln Lys Arg Lys Tyr Asn Gln Thr Leu Asn Leu Ser Leu
 100 105 110
 Gln Tyr Ser Pro Tyr Ser Tyr Trp Phe Ala Asn Val Thr Ser Arg Leu
 115 120 125
 Pro Val Thr Asp Thr Ser Arg Tyr Thr Ala Asp Phe Arg Tyr Ser Phe

130		135		140
Gly Tyr Asp Asp Trp	His Ala Asn Thr Phe Ser	Leu Val Tyr Ser Asn		
145	150	155	160	
Tyr Gly Asp Asn Arg	Phe Trp Thr Ser Gly Asn Arg Arg His Thr Tyr			
	165	170	175	
Phe Glu Gln Gly Ala Val Thr	Leu Ala Tyr Lys Phe Ser Leu Pro Lys			
	180	185	190	
Pro Ile Glu Asn Thr	Leu Leu Ile Asn Lys Gly Asp Ser Ile Ile Cys			
	195	200	205	
Gln Met Gly Tyr Ser	Trp Val Pro Arg Tyr Tyr Asp Leu Asp Ser Asn			
	210	215	220	
Asp Ile Arg Lys Asn	Lys Asn Val Val Leu Gly Gly Cys Gly Tyr Thr			
225	230	235	240	
Phe Lys Gln His Phe	Val Arg Ala Thr Ala Phe Trp Phe Pro Asp			
	245	250	255	
Ser Ser Gln Gln Gln	Pro Trp Asn Gly Asp Tyr Ser Tyr Ser Phe Gly			
	260	265	270	
Tyr Ala Gly Tyr Thr	Pro Gly Ser Phe Ser Val Gln Tyr Ala Asn Tyr			
	275	280	285	
Ser Gly Thr Arg Tyr	Pro Gly His Gln Ser Gly Ser Gly Lys Phe Arg			
	290	295	300	
Glu Gly Thr Val Ser	Val Ile Trp Phe Leu Pro Leu			
305	310	315		

<210> 11279

<211> 327

<212> PRT

<213> Enterobacter cloacae

<400> 11279

Gly Ala His Met Thr	Arg Leu Arg Gly Phe Ser Pro Gln Phe Asp Ser
1	5 10 15
Ile Gln Gln Phe Ile	Leu Thr Leu Thr His Val Val Trp Glu Gln Lys
	20 25 30
Asp Ile Gly Gln Leu	Ala Asp Phe Tyr Ala Thr Pro Val Val Phe Thr
	35 40 45
Thr Pro Glu Lys Gln	Leu His Glu Leu Ser Gln Phe Met Arg Leu Thr
	50 55 60
Leu Glu Ala Met His	Ser Phe Pro Gln Arg Ala Val Leu Thr Glu Asp
65	70 75 80
Ile Leu Cys Ser Gln	Asn Pro Gly Asp Glu Tyr Tyr Ala Ala Gln Arg
	85 90 95
Thr Val Ala Arg Ile	Gln His Gln Gly Glu Gly Phe Phe Gly Pro Pro
	100 105 110
Thr Gly Lys Asn Val	Trp Val Arg Thr Trp Ala Asp Arg Ile Cys Val
	115 120 125
Asp Gly Ala Val Arg	Gln Glu Trp Leu Leu Gln Asp Arg Ala Ala Ile
	130 135 140
Val Ala Gln Leu Gly	Leu Asp Val Arg Asp Phe Ala Phe Asn Leu Ala
145	150 155 160
Thr Met Arg Gln Gln	Leu Gly Leu Glu Ser Val Ser Ala Glu Thr Leu
	165 170 175
Asp Ala Arg Trp Ala	Gly Gly Pro Glu Gly Asp Asp Val Glu Gly Ala
	180 185 190
Leu Ala Gly Val Val	Glu Arg Tyr Leu Thr Met Trp Ala Gly Gly Asn
	195 200 205
Ser Gly Val Val Pro	Gly Leu Tyr His Pro Ala Ala Thr Leu Tyr Ala
	210 215 220
Pro Gly His Cys Leu	Cys Thr Gly Glu Gln Glu Ile Gly Ala Gln Leu
225	230 235 240
Ser Gly Tyr Arg Ala	Ser Phe Ala Asp Ser Glu Thr Gln Leu His His

				245					250				255				
Leu	Ile	Val	Arg	Lys	Asp	Pro	Asn	Glu	Pro	Ile	Arg	Leu	Ser	Leu	Arg		
			260					265					270				
Trp	Ser	Leu	Leu	Thr	Trp	His	Asp	Gly	Tyr	Gly	Lys	Phe	Gly	Ala	Pro		
		275					280					285					
Thr	Arg	Lys	Pro	Ile	Ser	Ile	Thr	Gly	Ile	Ser	Gln	Leu	Glu	Leu	Arg		
	290					295					300						
Asp	Gly	Leu	Ile	Phe	Arg	Glu	Tyr	Leu	Gly	Ile	Asp	Glu	Leu	Ala	Ile		
305					310					315					320		
Trp	Ser	Gln	Ile	Phe	Asn												
				325													

<210> 11280

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11280

Val	Thr	Val	Asp	Pro	Gly	Gln	His	Ala	Phe	Gly	Ala	Lys	Leu	Leu	Phe		
1				5					10					15			
Tyr	Pro	Ala	Arg	Asp	Leu	Thr	Gly	Arg	Arg	Met	Leu	Arg	Gly	Glu	Gln		
		20					25						30				
His	Ala	Arg	Ile	Leu	Ala	Arg	Ile	Ile	Asp	Ser	Pro	Arg	Tyr	Gln	Gln		
		35				40						45					
Pro	Ile	Leu	His	Arg	Leu	Thr	Arg	His	Val	Phe	Arg						
	50					55					60						

<210> 11281

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 11281

Asn	Thr	Arg	Asn	Phe	Leu	Ala	Trp	Arg	Thr	Arg	Arg	Pro	Met	Ser	Gln		
1				5					10					15			
Ile	Ala	Pro	Val	Leu	Ile	Asn	Lys	Asp	Val	Glu	Lys	Pro	Thr	Thr	Trp		
		20					25						30				
Arg	Tyr	Ile	Ala	Ser	Asp	Lys	Arg	Asp	Leu	Arg	Ile	Asp	Phe	Met	Arg		
	35					40						45					
Gly	Ile	Ala	Leu	Val	Met	Met	Val	Val	Ala	His	Thr	Glu	Val	Met	Ser		
	50					55					60						
Ile	Phe	Asn	Ile	Phe	Thr	Trp	Glu	Arg	Phe	Gly	Leu	Val	Thr	Gly	Ala		
65				70					75						80		
Glu	Gly	Phe	Val	Ile	Leu	Ser	Gly	Phe	Met	Leu	Gly	Met	Leu	Asn	Arg		
			85					90					95				
Val	Arg	Leu	Gln	Lys	Ala	Val	Leu	Leu	Thr	Ile	Ser	Trp	Gly	Leu	Tyr		
		100					105						110				
Leu	Arg	Ala	Trp	Lys	Ile	Tyr	Arg	Ile	Asn	Ile	Ile	Ile	Ile	Leu	Ser		
		115					120					125					
Phe	Leu	Leu	Leu	Gly	Tyr	Leu	Pro	Phe	Ile	Asn	Val	Phe	Glu	Val	Thr		
	130					135					140						
His	Phe	Thr	Asp	Arg	Tyr	Ser	Gly	Thr	Thr	Trp	Ser	Leu	Tyr	Pro	Val		
145				150						155					160		
Thr	Pro	Gln	Ile	Lys	Glu	Thr	Trp	Phe	Asn	Ile	Val	Leu	Tyr	Leu	Gln		
			165					170						175			
Ile	Gly	Pro	His	Gln	Thr	Gln	Ile	Leu	Gly	Leu	Tyr	Ile	Phe	Leu	Leu		
		180					185					190					
Leu	Leu	Ser	Pro	Leu	Phe	Leu	Gly	Met	Leu	Gln	Lys	Gly	Tyr	Val	Tyr		
		195				200						205					
Trp	Leu	Leu	Gly	Leu	Ser	Leu	Leu	Val	Tyr	Gly	Gly	Trp	Gln	Met	Trp		
	210					215					220						

Pro Val Arg Ala Thr Pro Ser Gln Phe Glu Phe Ala Phe Pro Leu Leu
 225 230 235 240
 Ala Trp Gln Phe Ile Phe Val Leu Gly Met Cys Ser Gly Trp Tyr Lys
 245 250 255
 Glu Asp Leu Ile Ser Phe Ala Arg Thr Pro Ala Gly Lys Val Val Leu
 260 265 270
 Val Ala Leu Val Ile Ile Ala Leu Leu Leu Gly Phe Ile Ala Gln Asn
 275 280 285
 His Thr Asn Pro Phe Met Pro Pro Ala Leu Leu Met His Ser Leu Ser
 290 295 300
 Pro Glu Asp Phe Asn Ala Phe Tyr His Thr Trp Ala Ala Lys Asn Gly
 305 310 315 320
 Leu Gly Pro Val Arg Val Leu Asn Asp Ile Cys Leu Met Val Thr Val
 325 330 335
 Tyr Leu Val Leu Thr Trp Cys Trp Leu Pro Leu Tyr Arg Leu Ala Gly
 340 345 350
 Trp Phe Leu Ile Pro Leu Gly Gln His Ser Leu Tyr Thr Phe Ile Leu
 355 360 365
 His Val Tyr Val Val Phe Leu Ile Ser Gln Phe Val Thr Phe Asp Leu
 370 375 380
 Trp Arg Gln Asp Trp Ile Val Asn Thr Phe Ile His Ala Ala Ala Leu
 385 390 395 400
 Gly Val Leu Trp Leu Met Ala Lys Tyr Asn Val Ala Ala Arg Trp Ile
 405 410 415
 Pro Asn

<210> 11282

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 11282

Arg Gly Ile Pro Gly Met Leu His Ser Gln Ser Ser Arg Val Gly Ser
 1 5 10 15
 Met Leu Leu Leu Leu Thr Ala Ile Ile Ala Phe Ala Val Ala Leu Tyr
 20 25 30
 Ala Trp Trp Thr Pro Leu Thr Gly Val Thr Gly Thr Ile Gly Ala Leu
 35 40 45
 Gly Val Val Ile Ala Ser Val Val Leu Ala Ile Leu Thr Val Met Leu
 50 55 60
 Arg Ala Ala Ser Arg Arg Gly Ala Arg Val Phe Leu Ile Ile Val Thr
 65 70 75 80
 Leu Val Val Leu Ala Gly Ile Gly Phe Ala Ala Ala Leu Leu His Gln
 85 90 95
 Tyr Ile Ile Thr Ala Ala Met Val Val Gly Leu Ile Gly Leu Ile Met
 100 105 110
 Leu Ser Ser His Ser Ala Arg Tyr Asn His Arg Val Arg Ser
 115 120 125

<210> 11283

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 11283

Ile Tyr Lys Gly Arg Tyr Thr Lys Leu Gly Phe Leu Ala Gly Ala Val
 1 5 10 15
 Leu Ala Thr Trp Leu Ser Leu Thr Tyr Pro Thr Gln Met Arg Ala Val
 20 25 30
 Phe Glu Gln Leu Val Thr Ile Val Gln Gln Ile Thr Gln Pro Ser Ser

	35		40		45								
Glu	Ser	His	Ser	Asp	Met	Val	Thr	Pro	Glu	Gln	Ser	Tyr	Pro
	50					55					60		

<210> 11284

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 11284

Thr	Ala	Ser	Ala	Val	Asn	Trp	Arg	Ser	Thr	Met	Lys	Arg	Phe	Leu	Phe
1				5					10					15	
Met	Ala	Leu	Ala	Leu	Thr	Met	Leu	Val	Ala	Gly	Cys	Ser	Thr	Glu	Val
		20						25					30		
Thr	Glu	Tyr	Arg	Gln	Gln	Gln	Pro	Arg	Leu	Asp	Ile	Phe	Thr	Tyr	Phe
		35					40					45			
Gln	Gly	Lys	Thr	Glu	Ala	Trp	Gly	Met	Val	Gln	Asp	Arg	Ser	Gly	Lys
	50					55				60					
Gln	Ile	Arg	Arg	Phe	His	Val	Glu	Ile	Ala	Gly	Asp	Val	Ile	Gly	Asp
65					70				75					80	
Thr	Leu	Thr	Leu	Asn	Glu	His	Phe	Val	Tyr	Asp	Asp	Gly	Glu	Lys	Gln
				85					90					95	
Gln	Arg	Val	Trp	His	Ile	Arg	Arg	Val	Gly	Gln	Asn	Arg	Tyr	Glu	Gly
		100						105					110		
Thr	Ala	Gly	Asp	Ile	Glu	Gly	Val	Ala	Thr	Gly	Gln	Ala	Ala	Gly	Asn
	115						120					125			
Ala	Leu	Asn	Trp	Arg	Tyr	Ser	Met	Asn	Val	Lys	Ala	Asp	Gly	Lys	Thr
	130					135				140					
Trp	Leu	Leu	His	Phe	Asp	Asp	Trp	Met	Tyr	Leu	Gln	Asp	Ser	Thr	Arg
145					150				155					160	
Leu	Phe	Asn	Lys	Thr	Glu	Met	Lys	Lys	Phe	Gly	Val	Thr	Val	Ala	Thr
			165						170					175	
Val	Thr	Leu	Phe	Phe	Thr	Arg	Lys	Glu	Gly	Gly					
		180						185							

<210> 11285

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 11285

Leu	Thr	Pro	Ser	Leu	Leu	Ile	Ile	Ile	Phe	Thr	Arg	Asp	Tyr	Asn	Arg
1				5					10					15	
Ala	Asn	Asp	Gly	Gly	Ser	Val	Thr	Tyr	Leu	Glu	Val	Leu	Asn	Ile	Asn
		20						25					30		
Pro	Arg	Gln	Ile	Arg	Gly	Ile	Glu	Trp	Glu	Asn	His	Cys	Gly	Ser	Ala
		35					40					45			
Gly	Ala	Phe	Ser	Cys	Val	Pro	Ala	Pro	Leu	Thr	Gly				
	50					55					60				

<210> 11286

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 11286

Leu	Leu	Asp	Thr	Ile	Met	His	His	Pro	Ser	Gln	Arg	Cys	Ser	Ala	Val
1				5					10					15	
Ser	Gln	Asp	Ser	His	Leu	Arg	Ile	Ile	Thr	Arg	His	Tyr	Ser	Lys	Ser
		20						25					30		
Ser	Thr	Gly	Gln	Gly	Thr	Asp	His	Ser	Val	Ser	Tyr	Val	Pro	Ala	Lys


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<210> 11287
<211> 98
<212> PRT
<213> Enterobacter cloacae
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[illegible]

```
<210> 11288
<211> 181
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<210> 11289
<211> 62
<212> PRT
<213> Enterobacter cloacae
```

<400> 11289

```

Ile Leu Tyr Leu Tyr Thr Val Leu Tyr Ile Asp Ser Lys Asp Gln Gly
1          5          10          15
Gly Thr Arg Ser Asp Val Val Arg Val Gln Glu Glu Glu Gly Tyr Ile
20          25          30
Gln Asn Gly Gly Glu Ala Asn Leu Ala Glu Arg Val Phe Asn Glu Met
35          40          45
Phe Lys Glu Tyr Lys Cys Pro Tyr Gly Arg Tyr Gly Gln
50          55          60

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<210> 11290

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 11290

```

Pro Met Ser Thr Leu Pro Ser Val Ile Ser Arg Phe Val Asp Tyr Tyr
1          5          10          15
Ala Thr Leu Asp Thr Gln Pro Pro Ser Ala Leu Ala Gly Ile Tyr Arg
20          25          30
Ala Asp Ala Thr Leu Ile Asp Pro Phe Gly Glu His Ser Gly Val Phe
35          40          45
Ala Ile Gln Arg Tyr Phe Thr His Leu Leu Ala Asn Val Gln His Cys
50          55          60
Arg Phe Thr Val Asp Ala Pro Leu Gln Gln Gly Asp Arg Phe Val Val
65          70          75          80
Thr Trp Met Met His Trp Ser His Pro Arg Ile Ala Arg Gly Ala Val
85          90          95
Arg Gln Leu Pro Gly Cys Ser Val Val Asp Met Arg Asp Asp Arg Ile
100          105          110
Val Arg Gln Arg Asp Tyr Tyr Asp Ala Gly Glu Met Ile Tyr Glu His
115          120          125
Leu Pro Ile Leu Gly Trp Ala Val Arg Gly Val Lys Arg Arg Val Lys
130          135          140
Ser
145

```

<210> 11291

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 11291

```

Cys Pro His His Gln Arg Gly Ala Ala Asp Cys Gly Thr Arg Met Lys
1          5          10          15
Arg Tyr Gly Gln Val Phe Leu Leu Ala Ile Gly Phe Asp Leu Tyr Trp
20          25          30
Thr Leu Val Val Leu Phe Arg Glu Gln Gly Leu Val Ile Trp Ile Ala
35          40          45
Leu Ala Val Leu Ala Trp Leu Leu Leu Pro Pro Ser His Arg Val Tyr
50          55          60
Ala Leu Val Leu Ala Ala Ser Gly Ala Leu Leu Asp Ala Leu Trp Ala
65          70          75          80
Leu Thr Gly Leu Ile Ala Phe Thr Gly Ala Ser Leu Met Pro Leu Trp
85          90          95
Met Val Ala Leu Trp Leu Met Phe Ala Thr Val Trp Thr His Leu Thr
100          105          110
Arg Thr Thr Thr Leu Pro Gly Trp Leu Leu Thr Val Leu Ala Thr Leu
115          120          125
Gly Gly Pro Val Ala Tyr Leu Ile Gly Glu His Leu Gly Ala Ile Thr
130          135          140

```

Phe Gln Glu Pro Thr Phe Ile Val Val Ser Trp Met Phe Pro Gly Trp
 145 150 155 160
 Leu Val Leu Met Leu Phe Phe His Leu Leu Met Gly Arg Gln Gln
 165 170 175

<210> 11292

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 11292

Ser Ser Pro Pro Gly Lys Arg Arg Lys Ser Val Met His Ile Ile Leu
 1 5 10 15
 Ile Leu Leu Val Ile Ala Gly Gly Met Gly Leu Ser Val Glu Ala Gly
 20 25 30
 Leu Leu Gly Pro Leu Gly Ala Glu Val Gly Asp Leu Trp Ala Ala Phe
 35 40 45
 Ser Ile Phe Ser Val Gly Thr Gly Leu Thr Phe Leu Leu Met Leu Phe
 50 55 60
 Phe Ser Pro Arg Asn Ser Pro Ser Phe Phe Ala Gln Pro Ser Trp His
 65 70 75 80
 Leu Leu Gly Gly Val Leu Gly Pro Val Tyr Val Ile Ile Leu Thr Ile
 85 90 95
 Ala Thr Pro Ala Ile Gly Ile Ala Met Thr Met Ile Gly Ile Leu Ala
 100 105 110
 Gly Gln Val Phe Lys Ser Leu Ile Ile Asp His Tyr Gly Leu Leu Gly
 115 120 125
 Thr Pro His Arg Arg Ile Asp Thr Lys Arg Ile Ile Ala Leu Gly Phe
 130 135 140
 Ile Ile Ala Ala Leu Ile Leu Val Ala Gln Gly
 145 150 155

<210> 11293

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 11293

Asn Ala Pro Val Asp Ala Arg Ser Lys Tyr Leu His Leu Ser Met Lys
 1 5 10 15
 Arg Gly Gly Gly Val Ala Glu Leu Glu Arg Leu Arg Ala Phe Thr Gln
 20 25 30
 Arg Gln Arg Ala Thr Ala Gln Thr Val Gln Gln Ala Glu Glu Gln Pro
 35 40 45
 Ser Arg Asp Ala Asp Val Ala Arg Asp Ile Gly Phe Lys Arg Lys Asp
 50 55 60
 Gly Ile Gly His Glu Arg Ser Leu Leu Leu Arg Gly Trp Leu Cys Ser
 65 70 75 80
 Gly Thr Arg Phe Ser His Ser Leu Ser Ala Cys Gln
 85 90

<210> 11294

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 11294

Arg Gly Pro Glu Met Gly Thr Ala Ile Phe Met Val Leu Met Val Cys
 1 5 10 15
 Gly Tyr Trp Tyr Thr Ser Arg Asp Leu Ser Thr Arg Phe Lys Ile Lys
 20 25 30

```
<210> 11295
<211> 220
<212> PRT
<213> Enterobacter cloacae
```

<400>	11295														
Ala	Phe	Ile	Cys	Pro	Val	Ala	Pro	Glu	Ala	Thr	Glu	Thr	Tyr	Leu	Tyr
1				5					10					15	
His	Asp	His	Gln	Glu	Asn	Asn	Met	His	Thr	Ser	Lys	Thr	Leu	Lys	Arg
			20					25					30		
Leu	Leu	Ala	Val	Ser	Ala	Val	Ala	Ala	Met	Phe	Ser	Thr	Val	Gly	Val
		35					40					45			
Gln	Ala	Gln	Thr	Thr	Ser	Ala	Ala	Gln	Thr	Gln	Thr	Ala	Gly	Lys	Ala
	50					55					60				
Gln	Pro	Asp	Ala	Arg	Leu	Ser	Ser	Gly	Asp	Glu	Lys	Ala	Leu	Lys	Asp
65				70					75					80	
Met	Ala	Gln	Ala	Asn	Ile	Asn	Glu	Val	Ala	Ala	Ala	Arg	Leu	Ala	Leu
				85					90					95	
Asp	Lys	Ala	Gln	Ser	Ser	Glu	Val	Lys	Thr	Phe	Ala	Gln	Lys	Met	Val
			100					105					110		
Asp	Asp	His	Gly	Ala	Ala	Leu	Thr	Lys	Val	Gln	Thr	Val	Ala	Gln	Lys
		115					120					125			
Lys	Gly	Val	Glu	Leu	Pro	Thr	Glu	Pro	Asp	Ala	Ala	His	Lys	Ala	Leu
	130					135					140				
Asn	Ser	Arg	Leu	Glu	Asn	Gln	Arg	Gly	Asp	Ala	Phe	Asp	Lys	Met	Tyr
145				150					155					160	
Met	Glu	Tyr	Ala	Gly	Val	Lys	Asp	His	Glu	Lys	Val	Leu	Ser	Lys	Leu
				165					170					175	
Lys	Ser	Asp	Ala	Ser	Lys	Ile	Asp	Asp	Pro	Asp	Val	Lys	Ala	Leu	Ala
			180					185					190		
Asn	Glu	His	Thr	Pro	Val	Val	Glu	Gln	His	Leu	Lys	Ser	Ala	Glu	Gln
		195					200					205			

Met Ser Thr His Ser Gly Ala Ser Ala Asp Lys
 210 215 220

<210> 11296
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 11296
 Arg Asp Ser Arg Ala Met Ala Arg Asp Asp Ser Pro Ser Pro Ser Leu
 1 5 10 15
 Ala Gly Ala Phe His Gly Leu Thr Gly Thr Ala Ala Phe Phe Leu Cys
 20 25 30
 Val Val Phe Ser Gln Lys Lys Ala Pro Tyr Tyr Asp Gly Ala Arg Leu
 35 40 45
 Leu Ile Ser Leu Leu Phe Ile Gln Arg Val Gly Asn His Val Val Thr
 50 55 60
 Thr Ile Arg Arg Leu Ala Cys Thr Ala Gly Arg Asp Gln Asn Val Leu
 65 70 75 80
 Phe Ala Gly Phe Arg
 85

<210> 11297
 <211> 191
 <212> PRT
 <213> Enterobacter cloacae

<400> 11297
 Leu Ser Thr Thr Met Ala Cys Trp Val Arg Arg Thr Ala Gly Ser Ile
 1 5 10 15
 Gln Asn Ala Leu Leu Arg Trp Asp Leu Ser Ser Pro Arg Ser Phe Ser
 20 25 30
 Trp Arg Arg Gly Asn Val Met Thr Val Ile Met Ile Ile Leu Ala Val
 35 40 45
 Ile Gly Gly Ala Thr Leu Ser Ile Gln Ala Ala Ile Asn Gly Gln Leu
 50 55 60
 Gly Ser Ser Val Gly Val Phe Lys Ser Ala Phe Leu Thr Phe Ser Val
 65 70 75 80
 Gly Ala Leu Val Thr Ala Leu Leu Ile Phe Phe Phe Glu Pro Lys Gln
 85 90 95
 Ala Val Ser Leu Met Asp Val Pro Lys Trp Gln Leu Leu Gly Ala Leu
 100 105 110
 Cys Gly Val Pro Tyr Ile Val Ile Met Val Leu Ala Val Gln Arg Ile
 115 120 125
 Gly Thr Ala Val Ala Thr Val Ala Val Ile Leu Gly Gln Leu Ala Met
 130 135 140
 Ser Met Leu Ile Asp Asn Phe Gly Trp Leu Asn Asn Glu Ala Ile Pro
 145 150 155 160
 Phe Ser Val Ser Arg Phe Gly Ala Val Val Cys Leu Ser Ile Ala Leu
 165 170 175
 Phe Phe Ile Tyr Ser Ser Ser Lys Leu Gln Pro Glu Glu Asp
 180 185 190

<210> 11298
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 11298
 Gln Gln Lys Asn Pro Gly Arg Gln Ser Arg Leu Ile Val Arg Thr Thr
 1 5 10 15

His His Leu Ser Cys Arg Arg Gly Pro Glu Thr Ala Arg Gly Leu Ile
 20 25 30
 Met His Tyr Val Asp Leu Leu Glu Asn Asn Ala Ile Glu His Phe Asn
 35 40 45
 Leu Phe Trp Arg Lys Ile Trp Leu Gln His Phe Leu Ser Ser Asp Val
 50 55 60
 Cys
 65

<210> 11299

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 11299

Ile Ala Gln Phe Met Lys Asn Pro His Val Ala Val Lys Leu Ser His
 1 5 10 15
 Phe Pro Cys Ala Arg Gly Ser Gly Ile Asn Tyr Ala Leu Ile Thr Phe
 20 25 30
 Arg Gln His Glu Leu Arg Met His Asn Gln Met Ser Gln Ala Phe Thr
 35 40 45
 Phe Thr Leu Lys Arg Ser Cys Phe Asp Glu Asn Tyr Asn Pro Ser Glu
 50 55 60
 Asn Thr Arg Thr Thr Thr Asn Phe Ala Asn Leu Ala Arg Gly Glu Lys
 65 70 75 80
 Arg Gln Glu Asn Leu Arg Asn Thr Leu Val Met Ile Asn Asn Arg Phe
 85 90 95
 Asn Ala Leu Ala Ser Trp Asp Asn Pro Lys Ala Asp Arg Tyr Ala Val
 100 105 110
 Glu Leu Glu Ile Ile Ser Val Asp Met Asn Ile Gly Gly Asp Phe Thr
 115 120 125
 Phe Pro Ala Ile Glu Ile Leu Gln Thr Thr Ile Val Asp Lys Lys Thr
 130 135 140
 His Glu Arg Ile Glu Gly Ile Val Gly Asn Asn Phe Ser Ser Tyr Val
 145 150 155 160
 Arg Asp Tyr Asp Phe Ser Val Leu Leu Leu Glu His Asn Lys Asp Gln
 165 170 175
 Pro Arg Phe Thr Leu Pro Glu Asn Phe Gly Glu Leu His Gly Asn Ile
 180 185 190
 Phe Lys Ser Phe Val His Ser Ala Glu Tyr Gln Ala Asn Phe Lys Lys
 195 200 205
 Ala Pro Val Ile Cys Leu Ser Val Ser Ser Lys Asp Thr Tyr Arg Arg
 210 215 220
 Thr Gly Asn His His Pro Val Leu Gly Tyr Glu Tyr Gln Pro Asp Gly
 225 230 235 240
 Glu Ser Leu Thr Glu Gln Tyr Phe Ala Lys Met Gly Leu Lys Val Arg
 245 250 255
 Tyr Phe Met Pro Glu Asn Ser Val Ala Pro Phe Ala Phe Phe Thr
 260 265 270
 Gly Asp Leu Leu Arg Asp Tyr Thr Asn Leu Glu Leu Ile Gly Thr Ile
 275 280 285
 Ser Thr Met Glu Thr Phe Gln Lys Ile Tyr Arg Pro Glu Ile Tyr Asn
 290 295 300
 Ala Asn Ser Ala Ala Gly Gln Cys Tyr Gln Pro Asp Leu Asn Gln Gln
 305 310 315 320
 Asp His Ser Leu Thr Lys Ile Val Tyr Asp Arg Glu Glu Arg Ser Arg
 325 330 335
 Leu Ala Ile Glu Gln Gly Lys Tyr Thr Glu Glu Arg Phe Ile Lys Pro
 340 345 350
 Tyr Lys Thr Leu Leu Glu Gln Trp Ser His His Phe Thr Leu Ser Phe
 355 360 365

Asn Thr Asp Lys Arg Phe Phe Ser
370 375

<210> 11300

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11300

Gly Cys His Ala Met Lys His Leu Leu Met Thr Leu Phe Ser Ser Pro
1 5 10 15
Glu Ser Leu Leu Gln Val Met Ser His Gln Glu Ile Ile Glu Ala Val
20 25 30
Glu Asp Gly Asp Arg Ile Ile Ile Asp Gln Asp Gly Asn Ala Ser Val
35 40 45
Asn Tyr Lys Ser His Glu Val Arg Gln Asp Phe Leu Arg His Val Asn
50 55 60
Ala Leu Lys Arg Ala
65 70

<210> 11301

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 11301

Asp Glu Gln His Asp Gly Ala Val Thr Phe Lys His Ala Phe Met Leu
1 5 10 15
His Tyr Leu Asn Lys Leu Leu Leu Ser Gln Ser Leu Arg Ala His Lys
20 25 30
His Lys Lys Ser Phe Asp Leu Asn Ser Pro Arg Ile Arg Gly Ile Phe
35 40 45
Leu Ala Val Cys Lys Gln Lys Thr Arg Gln Lys Arg Val Phe Val Val
50 55 60
Phe Glu Lys Ile Ile
65 70

<210> 11302

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 11302

Lys Thr Lys Phe Glu Gly Met Lys Met Lys Lys Val Leu Ala Leu Val
1 5 10 15
Val Ala Ala Ala Met Gly Leu Ser Ser Ala Ala Phe Ala Ala Glu Thr
20 25 30
Thr Ala Thr Ala Ala Pro Ala Ala Ser Thr Ala Ala Pro Ala Lys Thr
35 40 45
Val His His Lys Lys His His Lys Ala Ala Lys Pro Ala Ala Glu Gln
50 55 60
Lys Ala Gln Ala Ala Lys Lys His His Lys Lys Ala Ala Lys Pro Ala
65 70 75 80
Val Glu Gln Lys Ala Gln Ala Ala Lys Lys His His Lys Lys Ala Ala
85 90 95
Lys His Glu Ala Ala Lys Pro Ala Ala Gln Pro Ala Ala
100 105 110

<210> 11303

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 11303

His Gly Asp Cys Leu Ala Pro Glu Ala Leu Gln Gly Phe Leu Thr Glu
 1 5 10 15
 Glu Ala Leu Leu Ser Gly Gln Leu Ser Leu Met Arg Tyr Cys Cys Gln
 20 25 30
 Ser Cys Gly Ile Cys Pro Val Ala Lys Arg Phe Thr Ser Lys Glu Glu
 35 40 45
 Val Thr Glu Asn Ala Leu Gly Ile Met Arg Leu Ile Ile Glu Leu Pro
 50 55 60
 Cys Leu Asn Glu Lys Leu Gln Ala Thr
 65 70

<210> 11304

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 11304

Ile Lys Pro Pro Leu Tyr Ser Tyr Ile Tyr Asp Phe Leu Met Phe Asn
 1 5 10 15
 Leu Ala Lys Gly Leu Ser Tyr Lys Gln Lys Leu Asn Gly Ser Phe Phe
 20 25 30
 Leu Ile Ile Asp Lys Ser His Pro Asp Gly Cys Glu Gly Gly Cys Phe
 35 40 45
 Leu Cys Tyr Cys Val Arg Ile Val Leu Ser Ala Ile Lys Met Gly Leu
 50 55 60
 Phe Phe Tyr Leu Arg Ile Phe Arg Gly Asn Lys Thr
 65 70 75

<210> 11305

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 11305

Ser Leu Ser Gln Tyr Gln Gly Gly Val Gly Ile Glu Lys Asn Lys Glu
 1 5 10 15
 Leu Val Ala Ser Gln Ala Ala Tyr Ser Gly Tyr Ile Val Glu Phe Asn
 20 25 30
 Asn Gly Ser Arg Leu Trp Ile Asn Arg Glu Thr Leu Leu Val Gly Trp
 35 40 45
 Phe Asp Asn Pro Gln Val Pro Gln Lys Gly Arg Met Arg Phe Gln Lys
 50 55 60
 Thr Lys Met Asn Leu Phe Ala Tyr Leu Leu Glu His Ala Val Arg Lys
 65 70 75 80
 Glu Val Ser Arg Asp Glu Leu Leu His Gln Val Trp Glu Lys Tyr Gly
 85 90 95
 Leu Lys Ser Ser Ser Arg Gln Leu Trp His Ala Ile Gly Gln Leu Lys
 100 105 110
 Leu Ser Leu Phe Thr Leu Gly Ile Pro Tyr Glu Phe Ile Gln Ser Asn
 115 120 125
 Lys Gly Lys Thr Tyr Ser Leu Glu Lys Val Lys Val Phe Phe Ile Thr
 130 135 140
 Gln Ser Asp Ile Asn Asp Asp Ala Tyr
 145 150

<210> 11306

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 11306

```

Tyr Met Asn Leu Ala Tyr Phe Leu Phe Leu Ser Ile Thr Val Met Leu
1      5      10      15
Thr Ser Phe Ile Ile Lys Ser Leu Val Val Leu Val Lys Phe Lys Leu
20      25      30
Leu Arg Asp Glu Arg Leu Glu Tyr Thr Ser Asn Lys Asn Ile Asp Glu
35      40      45
Met Tyr Asp Leu Met Asn Ala Lys Glu Glu Ile Leu Ile Arg His His
50      55      60
Lys Gln Met Leu Ala Leu His Leu Ser Leu Leu Ile Phe Val Leu Phe
65      70      75      80
Ile Ala Tyr Ile Tyr
85

```

<210> 11307

<211> 99

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(47)

<220>

<221>UNSURE

<222>(70)

<220>

<221>UNSURE

<222>(76)

<400> 11307

```

Leu Ala Ala Leu Gln Pro Ala Gly Gln Asp Ala Arg Trp Arg Ser Thr
1      5      10      15
Ala Gln Arg Leu Pro Pro His Ser Val Gln Trp Pro Ser Thr His Ala
20      25      30
Arg Pro Leu Ala His Lys Ala Ser Ser Arg Ala Thr Asp Arg Xaa Leu
35      40      45
Gln Pro Pro Pro Arg Gln Ser Pro Phe Pro Ala Ser Arg Cys Tyr Gln
50      55      60
Arg Val Ser Ser Ser Xaa Thr Phe Val Arg Pro Xaa Cys Gly Asp Leu
65      70      75      80
Ser Gly Pro Leu Ile Ile Ile Pro Gln Gln Ile Lys Val Ile Pro Met
85      90      95
Gly Thr Val

```

<210> 11308

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 11308

```

Tyr Leu Ser Ile Leu Ile Ser Ser Ala Asn Asn Gly Ala Asn Glu Met
1      5      10      15
Asn Ile Thr Ser Gln Pro Asn Pro Ala Ser Lys Glu Phe Asp Ile His
20      25      30
Ala Lys Leu Lys Ala Ala Asn Ser His Trp Ser Tyr Leu Arg Ala Ala
35      40      45

```

Gln	Pro	His	Gln	Asn	Asp	Phe	Asp	Tyr	Glu	Phe	Asn	Thr	Thr	Phe	Ile
	50					55				60					
Asp	Gly	Leu	Glu	Phe	Ala	Ile	Tyr	Glu	Arg	Val	Gly	Asn	Tyr	Phe	Val
65				70					75					80	
Leu	Val	Asp	Phe	Phe	Lys	Ser	Tyr	Glu	Glu	Ala	Cys	Asp	Asp	Ala	Lys
			85					90						95	
Lys	Ile	Ile	Asp	Asp	His	Pro	Asp	Ile	Lys	Lys	Met	Phe	Ser	Ala	Ile
			100					105						110	

<210> 11309

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 11309

Ile	Ala	Gly	Val	Phe	His	Ser	Lys	Lys	Val	Glu	Leu	Asp	Gly	Ile	Cys
1				5					10					15	
Tyr	Glu	Thr	Ser	Asp	Ile	Cys	Ile	Ser	Glu	Leu	Ser	His	Leu	Glu	Phe
			20					25					30		
Ser	Ala	Phe	Leu	Ser	Thr	Asp	Gly	Ala	Ala	Thr	Ile	Ala	Ile	Ala	Lys
		35					40					45			
Asn	Gly	Thr	Asn	Phe	Thr	Gly	Leu	Met	Gln	Leu	Asn	Asn	Asp	Tyr	Ser
	50					55			60						
Leu	Leu	Phe	Tyr	His	Asp	Gly	Lys	Ile	Asn	Met	Glu	Gly	Leu	Ile	Lys
65				70					75					80	
Glu	Met	Glu	Leu	Lys	Gly	Tyr	Met	Tyr	Gln	Gly	Ala	Met	Gly	Asn	Asp
				85					90					95	
Asp	Val	Ala	Ala	Glu	Phe	Pro	Gly	Ile	Leu	Leu	Ile	Ala	Pro	Glu	Lys
			100					105						110	

Leu

<210> 11310

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 11310

Leu	His	Gln	Arg	Ser	Phe	Asn	Ile	Asn	Pro	Ile	Gly	Lys	Ser	Phe	Pro
1				5					10					15	
Val	Gly	Glu	Gly	Phe	Pro	Phe	Phe	Leu	Glu	Lys	Pro	Met	Thr	Leu	Asn
			20					25					30		
Thr	Ser	Met	Leu	Asn	Lys	Val	Ser	Ala	Lys	Gln	Ile	Ser	Glu	Asn	Phe
		35					40					45			
Ala	Lys	Ser	Tyr	Pro	Asp	Leu	Glu	Gly	Ala	Val	Ile	Thr	Lys	Ile	
	50					55			60						
Glu	Ile	Ser	Gly	Cys	Gln	Gly	Ser	Arg	Arg	Asn	Asp	Lys	Ile	Asp	Leu
65				70					75					80	
Ser	Tyr	Asp	Gly	Asp	Asp	Ile	Thr	Asp	Gln	Lys	Ser	Val	Ser	Lys	Asn
				85					90					95	
Gln	Leu	Arg	Trp	Ile	Asp	Ile	Lys	Ala	Leu	Ser	Phe	Gln	Ser	Thr	Ile
			100					105						110	
Thr	Ser	Arg	Ile	Ser	Thr	Pro	Leu	Leu							
			115					120							

<210> 11311

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 11311

```

Leu Lys Leu Thr Lys Asp Asp Phe Ile Asn Pro Phe Arg Phe Asn Ile
1      5      10      15
Ala His Phe Ile Pro Phe Thr Pro Ile Ser Val Glu Gly Asp Glu Thr
20      25      30
Gln Asp Tyr Tyr Gln Glu Gln Leu Ile Thr Asp Leu Ala Glu Glu Ala
35      40      45
Met Arg Val Tyr Glu Lys Ile Ser Lys Asn Asn Asn Leu Arg Ser Ser
50      55      60
Thr Ile Asp Arg Leu Lys Gln Met Gln Asn Lys Ile Ile Ser Phe Met
65      70      75      80
Phe Ile His Lys Glu Ala Ala Val Leu Ala Glu Ala Ile Lys His Ile
85      90      95
Met Asn Asn Leu Pro Lys Gly Ala Ile Ser Glu Pro Arg Asp Val Ala
100     105     110
Val Leu Gln Gln Trp Phe Tyr Phe Met Ser Asp Ala Ser Met Leu Lys
115     120     125
Arg Ile Ile Ser Gly Glu Gln Lys Val Thr Asp Trp Leu Glu Ser Ile
130     135     140
Thr Arg Ser Phe Asn Gln Ser Ser Gln Thr Glu Pro Asn Ala Leu Gln
145     150     155     160
Asn Thr Gly Ile Glu Ala Ile Leu Asp Ser Thr Asn Val Phe Gln Val
165     170     175
Glu Pro Val Val Glu Asn Asp Ile Lys Asn Ser Thr Phe Ser Asn Thr
180     185     190
Asp Ser Val Ala Glu Pro Glu Lys Ser Val Ser Gln Gln Glu Asp Asn
195     200     205
Ala Glu Asn Gly Phe Asp Ile Glu Leu Lys Gly Trp
210     215     220

```

<210> 11312

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 11312

```

Val Pro Leu Phe Ile Lys Arg Tyr Ser Met Lys Leu Asp Leu Lys Ser
1      5      10      15
Ser Pro Arg His Ile Lys Arg Leu Gln Asn Ile Ala Lys Val Ile Ser
20      25      30
Gly Leu Gly Asp Val Arg Val Val Ile Asp Asp Asn Thr Lys Gly Pro
35      40      45
Tyr Phe Asp Pro Val Asn Lys Val Cys Val Leu Pro Asn Gly Asp Tyr
50      55      60
Ser Asp Asp Asp Phe Val Ser Leu Ile Glu Gly Phe Thr Cys His Glu
65      70      75      80
Ala Gly His Gly Arg Tyr Thr Val Ser Glu Val Tyr Ser Asp Ala Phe
85      90      95
Asn Ser Val Leu Met Ser Ser Glu Gly Phe Thr Arg Phe Asp Asp Gly
100     105     110
Met Asn Ala Glu Phe Glu Ser Leu Ala Glu Lys Arg Lys Ala Tyr Ser
115     120     125
Arg Ala Lys Arg Leu Thr Gly Leu Ile Asn Leu Phe Asp Asp Val Gln
130     135     140
Met Glu Glu Lys Val Gly Asn Asp Tyr Pro Asp Ala Lys Arg Arg Leu
145     150     155     160
Ala Ala Thr Tyr Ala Leu Met Val Lys Ala Gly Arg Met Thr Pro Asp
165     170     175
Ile Ser Ser Arg Pro Glu Asn Pro Val Leu Phe Ile Glu Trp Tyr Leu
180     185     190

```

Leu Asn Ser Ser Arg Val Gln Cys Leu Asn Cys Gly Val Gln Glu Arg
 195 200 205
 Thr Phe Phe
 210

<210> 11313
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 11313
 Thr Leu Thr Lys Leu Gly Phe Ile Tyr Met Lys Asn Ile Lys Ser Ile
 1 5 10 15
 Ala Ala Ala Ser Leu Leu Ser Ala Val Ser Phe Ser Gly Leu Ala Gln
 20 25 30
 Asn Ile Ser Val Thr Asp Thr Thr Leu Asp Gly Ala Glu Ala Gln Ile
 35 40 45
 Ala Ala Lys Ala Lys Glu Ala Lys Thr Ser Tyr Lys Ile Ile Ser Ala
 50 55 60
 Tyr Thr Gly Asn Arg Val His Met Thr Ala Val Leu Gly Glu
 65 70 75

<210> 11314
 <211> 121
 <212> PRT
 <213> Enterobacter cloacae

<400> 11314
 Arg Gln Glu Ala Ser Thr Met Arg Leu Ala Ser Tyr Ala Ile Ala Leu
 1 5 10 15
 Leu Phe Ile Thr Ser Leu Thr Gly Cys Lys Pro Glu Asn Gly Lys Ala
 20 25 30
 Phe Val Gly Asn Trp Val Glu Glu Thr Asn Ser Lys Ile Pro Ala Lys
 35 40 45
 Ile Ser Ile Ala Asp Glu Lys Ser Gly Gln Arg His Phe Tyr Ala Val
 50 55 60
 Lys Ile Thr Asp Leu Ile Trp Asp Lys Glu Thr Gly Val His Tyr Asn
 65 70 75 80
 Thr Lys Lys Ile Asn Ala Met Leu Asp Lys Glu Asn Phe Leu Trp Ala
 85 90 95
 Asn Asn Gly Asp Asn Phe Ile Ile Phe Asp Asp His Leu Met Tyr Asn
 100 105 110
 Gly Asp Arg Tyr Lys Arg Val Glu
 115 120

<210> 11315
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 11315
 Val Pro Gln Arg Ala Gln Pro Leu Ser Phe Val Ala Ser Gly Gln Ala
 1 5 10 15
 Gly Asn Ser Glu Glu Thr Ala Ser Asp Lys Leu Glu Glu Arg Gly Asp
 20 25 30
 Asp Val Lys Ser Ser Trp Pro Leu Arg Val Gly Leu His Thr Cys Tyr
 35 40 45
 Asn Gly Ala Tyr Lys Glu Lys Arg Pro Arg Glu Ser Lys Arg Thr Ser
 50 55 60

<210> 11316
 <211> 203
 <212> PRT
 <213> Enterobacter cloacae

<400> 11316
 Pro Gln Met Ser Lys Asn Lys Ala Arg Ser Lys Ala Leu His Gln Thr
 1 5 10 15
 Phe Ser Glu Ile Ile Pro Glu Met Asp Lys Ala Leu Asn Lys Gln Leu
 20 25 30
 Leu Glu Val Leu Met Lys Tyr Thr Glu Arg Asp Asn Glu Leu Ile Val
 35 40 45
 Ile Leu Asn Glu Asp Gly Pro Asn Ile Ile Glu Leu Lys Ser Leu Lys
 50 55 60
 Pro Val Ser Leu Leu Ala Glu Lys Leu Ser Ala Tyr Ser Ser Tyr Tyr
 65 70 75 80
 His Val Asp Val Val Glu Leu Val Val Lys Lys Ile Asp Phe Glu Gly
 85 90 95
 Ala Tyr Lys Leu Leu Lys Ala Ser Pro Asp Val Pro Leu Phe Lys Ser
 100 105 110
 Leu Thr Glu Leu Asp Lys Tyr Leu Val Glu Glu Phe Glu Lys Tyr Gly
 115 120 125
 Leu Asn Ser Phe Leu Asp Val Asp Asn Leu Asp Tyr Ser Leu Glu Lys
 130 135 140
 Ala Ser Glu Leu Lys Asn Glu Gln Leu Ile Asn Trp Val Ser Asp Ile
 145 150 155 160
 Ile Cys Lys Arg Glu Lys Leu Thr Leu Arg Lys Arg Phe Asp Val Ala
 165 170 175
 Val Lys Ala His Tyr Glu Asn Val Glu Asn Met Tyr Asp Ser Ser Pro
 180 185 190
 Gln Arg Gly Arg Arg Thr Arg Ala Lys Arg
 195 200

<210> 11317
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (74)

<400> 11317
 Thr Leu Gly Leu Arg Glu Ala Thr Leu Lys Glu Gln Phe Leu Val Ser
 1 5 10 15
 Ala Val Ser Leu Tyr Pro Ile Thr Trp Phe Lys Gln Phe Pro Lys Trp
 20 25 30
 Thr Tyr Thr Ser Asp Gln Thr Asn Leu Pro Lys Leu Val Phe Phe Pro
 35 40 45
 Phe Pro Glu Ala Arg Arg Ile Thr Asn Gly Tyr Glu His Gly Phe Pro
 50 55 60
 Ile Lys Ile Phe Leu Leu Arg Asn Arg Xaa
 65 70

<210> 11318
 <211> 285
 <212> PRT
 <213> Enterobacter cloacae

<400> 11318

Phe Gln Ile Thr Ala Ile Asn Ser Ala Thr Ser Leu Thr Val Thr Pro
 1 5 10 15
 Ala Ala Ser Gln Ala Leu Ser Gly Gln Lys Tyr Gly Ile Leu Val Thr
 20 25 30
 Asp Ser Leu Ser Val Asp Gly Leu Ala Gln Ser Met Ser Gln Leu Ile
 35 40 45
 Asn Glu Tyr Asp Glu Asn Ile Gly Ala Trp Glu Thr Phe Ala Thr Thr
 50 55 60
 Ser Ala Asn Gln Asn Ile Thr Val Thr Ile Asn Gly Ala Arg Val Thr
 65 70 75 80
 Ile Pro Ala Ile Gly Lys Leu Val Gln Lys Gly Ser Asn Gly Ala Val
 85 90 95
 Gly Val Ser Asp Gly Gly Thr Gly Ala Thr Asn Ala Ala Asp Ala Arg
 100 105 110
 Thr Asn Leu Gly Leu Gly Ser Ser Ala Thr Lys Asp Val Gly Thr Asp
 115 120 125
 Ser Gly Asn Val Met Gln Val Gly Ala Phe Gly Val Gly Thr Tyr Gln
 130 135 140
 Ala Pro Arg Pro Asn Asp Ala Asn Ser Ser Phe Ile Ser Asp Ala Asp
 145 150 155 160
 Gly Asn Thr Ser Trp Ala Pro Ala Asn Gly Cys Gly Tyr Gln Ser Ser
 165 170 175
 Tyr Asn Thr Gln Arg Ile Ala Gln Met Trp Val Thr Thr Gly Gly Ala
 180 185 190
 Gly Tyr Cys Arg Phe Leu Leu Asn Thr Asn Pro Gln Thr Ala Lys Thr
 195 200 205
 Asp Ala Pro Trp Thr Val Phe Gln Ser Ala Gly Thr Ser Asp Ile Asn
 210 215 220
 Phe Lys Lys Val Thr Gly Asp Leu Asp Leu Asn Glu Ser Leu Ser Asn
 225 230 235 240
 Ile Ala Ala Met Asp Phe Lys Thr Phe Tyr Tyr Leu Ala Asp Glu Asp
 245 250 255
 Lys Val Ile Arg Arg Gly Val Ile Ala Gln Glu Leu Glu Lys Ile Asp
 260 265 270
 Pro Gln Val Phe Thr Thr Arg Ser Lys Lys Val Leu Cys
 275 280 285

<210> 11319

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 11319

Glu Gly Ala Leu Asp His Asn Asn His Thr Ile Ser Leu Ile Tyr Asn
 1 5 10 15
 Lys Met Leu Ile Leu Phe Ile Gln Val Asn Asp Arg Tyr Glu Ile His
 20 25 30
 Pro Tyr Gln Arg Ala Gly Asp Lys Leu Thr Phe Ile Lys Asn Asn Leu
 35 40 45
 Leu Asn Ile Phe Ile Phe Leu His Glu Ala Ile Arg Pro Glu Pro
 50 55 60

<210> 11320

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 11320

Gln Thr Gly Ser Gly Ser Asp Cys Tyr Leu Thr Ala Ser Pro Ala Thr
 1 5 10 15
 His Asn Cys Asp Ser Met Glu Gln Val Ala Asp Lys Phe Phe Asp Arg

[illegible]

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<210> 11321
<211> 99
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<210> 11322
<211> 79
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 11322
His Val Leu Leu Ser Gly Asp Arg Tyr Thr Pro Val Ile Glu Thr Val
1          5          10          15
Ala Glu Pro Asp Ser Phe Pro Ile Arg Leu Val Phe Pro Thr Leu Arg
          20          25          30
Leu Phe Ile Leu Cys Asp Leu Ser Gln Gly Val Ala Ser Leu Ser Ala
          35          40          45
Ala Arg Ser Ala Glu Arg Ile Ala Asn Gly Ser Ser Asp Val Phe Arg
          50          55          60
Asp Ser Gly Asn Ser Phe Ser Phe Lys Gly Trp Gln Asn Phe
65          70          75

```

```
<210> 11323
<211> 70
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 11323
Lys Lys Ala Val Asn Leu Gly Leu Leu Ser Ile Gln Gln Cys Gln Ile
1          5          10          15
Leu Arg Gln Ser Lys His Pro Arg Pro Met Lys Met Ile Gln Cys Gln
20          25          30
Lys Lys Thr Arg Tyr Gln Asn Asp Leu Lys Lys Arg Asp Ala Gly Arg
35          40          45
Asp Tyr His Ser Ala Leu Trp Gly Tyr Leu Leu Ala Leu Ile Pro His
50          55          60
Arg Leu Val Val Val

```

65

70

<210> 11324

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 11324

Gln Pro Phe Phe Ser Asp Met Asn Ser Arg Val Thr Asn Pro Glu Ser
 1 5 10 15
 Tyr Ile Phe Ser Ala Ile Ile Tyr Ile Gly Lys Asp Asn Phe Thr Ser
 20 25 30
 Asn Glu Val Ala Lys Ile Leu Ile Gly Arg Phe Ser Leu Pro Lys Asn
 35 40 45
 Tyr Leu Lys Ala Lys Ala Phe Ala Tyr Asn Gln Ile Gln Gly Leu Val
 50 55 60
 Arg Lys Gly Leu Leu Asn Lys Val Arg Lys Leu Gly Ala Tyr Gln Tyr
 65 70 75 80
 Leu Tyr Ser Ala Thr Ser Glu Phe Asn Val Ala Lys Glu Asn Val Glu
 85 90 95
 Leu Ile Glu Val Ser Gln Lys Ser Pro Cys Gln Leu Ile Ser Ser Ala
 100 105 110
 Thr Ser Tyr Glu His Ser Asn Val Asn Ile Gln Ile Arg Thr Leu Ile
 115 120 125
 Glu Lys Tyr Ser Ser Glu Leu Glu Lys Val Ser Gly Val Lys Glu Ile
 130 135 140
 Tyr Glu Glu Leu Ile Ile Ala Val Pro Ser Arg Glu Asn Glu Phe Arg
 145 150 155 160
 Lys Leu Ser Leu Glu Gln Glu Lys Lys Gln Ile Lys Ile Asn Glu Gln
 165 170 175
 Ile Phe Phe Thr Thr Lys Leu Gln Gly Cys Pro Ile Asn Ser Met Val
 180 185 190
 Gln